

The Rollamo 1913

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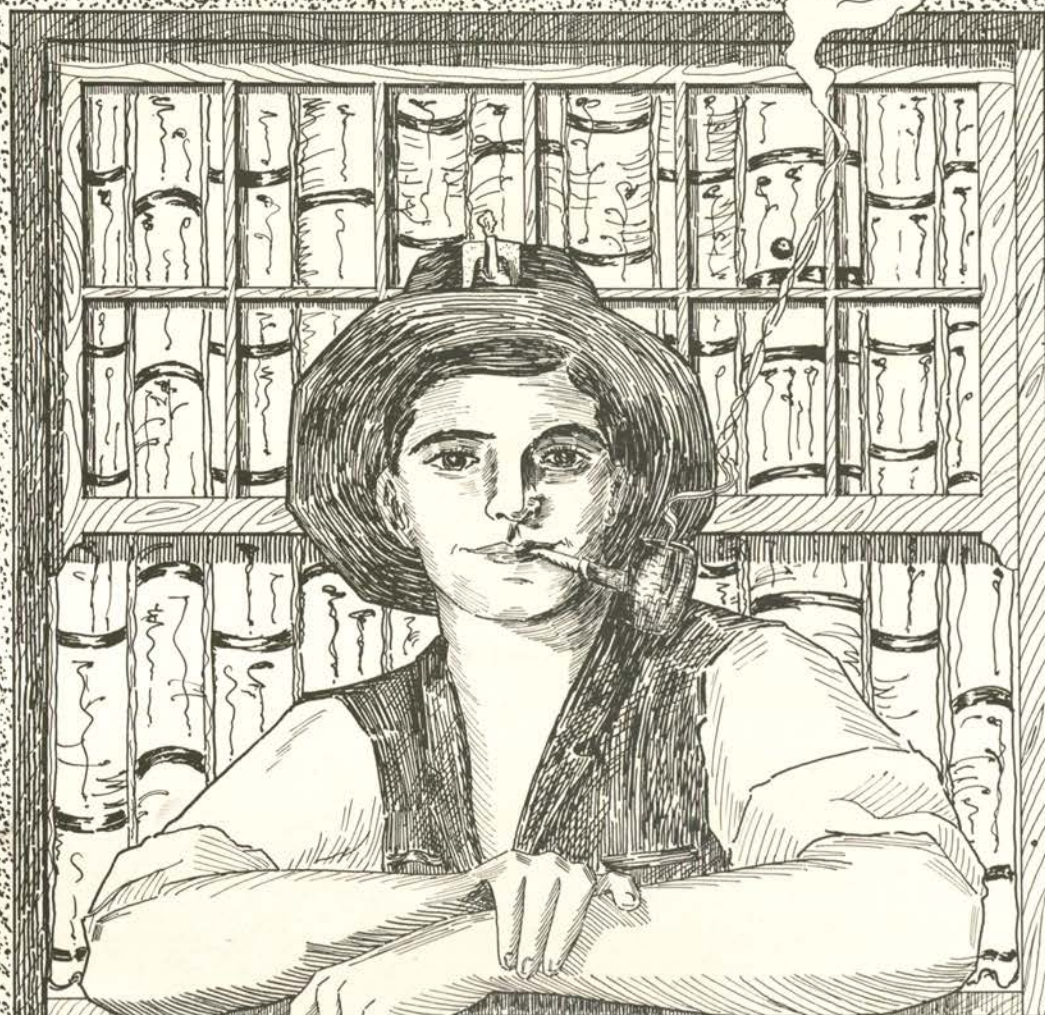
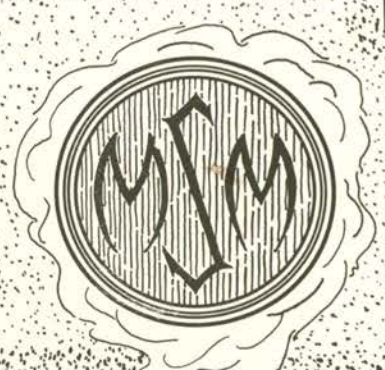
Published Annually by
the Students of the

Missouri School of Mines
and Metallurgy
Rolla, Missouri



Volume VII

1913



Eugene Johnson
1913

"M i n e r s"

To

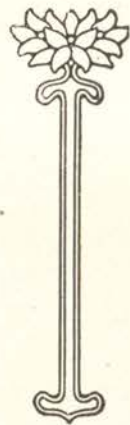
Durward Copeland

This record of all that we hold dear of our
college days is very respectfully dedicated

Kollamo Board 1913



Foreword



WITH no small amount of pleasure, some worry and a little time, we have succeeded in producing this "Rollamo."

It is the record of its year and class. And, if in years to come, it helps to bring nearer to us the glorious memories of college days, we will feel that it has been well worth while.

We offer it without apology, because we have all made it what it is.

Therefore, to us all it comes, the result of each and every one of us, and may we all take pride in its contents.



ALBERT ROSS HILL, A. B., Ph. D., LL. D.
President of the University.



LEWIS EMMANUEL YOUNG, E. M.

Tau Beta Pi.

Director of the School of Mines and Metallurgy, Director of the Mining Experiment Station, and Professor of Mine Engineering.

Member American Mining Congress; Member Western Association of Technical Chemists and Metallurgists; Member Colorado Scientific Society; Member Society for Promotion of Engineering Education.

B. S., Pennsylvania State College, 1900; E. M., Iowa State College, 1904; Assistant Engineer, Pittsburg Coal Co., 1900; Instructor in Mining, Iowa State College, 1900-01; Assistant Geologist, Iowa Geological Survey, 1901; Mining Engineer, Champion Copper Co., Painesdale, Mich., 1902; Assistant Professor of Mining, Colorado School of Mines, 1903-04; Professor of Mining, Colorado School of Mines, 1904-07; Consulting Mining Engineer, Denver; Director of the School of Mines and Metallurgy, 1907; Director of the Mining Experiment Station, 1909.



The Rollamo



AUSTIN LEE McRAE, S. D.,

Chi Phi, Tau Beta Pi,

Professor of Physics.

Fellow American Association for the Advancement of Science; Member of Society for the Promotion of Engineering Education; Member Executive Council for Missouri of the National Economic League.

B. S., University of Georgia, 1881; S. D., Harvard University, 1886; U. S. Signal Service (Electrical Work), 1882-89; U. S. Signal Service (Missouri State Weather Service) and Assistant Professor of Physics, University of Missouri, 1889-91; Professor of Physics, Missouri School of Engineering, St. Louis, 1896-99; Professor of Physics, University of Texas, 1894-96; Consulting Engineer, St. Louis, 1896-99; Professor of Physics, Missouri School of Mines, 1899.

GEORGE REINALD DEAN, C. E.,

Tau Beta Pi,

Professor of Mathematics.

Member American Mathematical Society; Member St. Louis Academy of Science.

C. E., Missouri School of Mines, 1890; B. S., 1891; Assistant in Mathematics, 1890-91; Professor of Mathematics, Maryville Seminary, 1891-92; Professor of Mathematics, Coe College, Iowa, 1892-93; Assistant in Leander McCormick Observatory, University of Virginia, 1893-94; Teacher of Mathematics, Central High School, Kansas City, Mo., 1894-97; Professor of Mathematics, Missouri School of Mines, 1897.





The Rollamo



VICTOR HUGO GOTTSCHALK, M. S.,

Tau Beta Pi,

Professor of Chemistry.

Member American Association for the Advancement of Science; Member American Chemical Society; Member St. Louis Chemical Society; Member Western Association of Technical Chemists and Metallurgists.

B. S., Missouri School of Mines, 1898; Assistant U. S. Assayer, Kansas City, Mo., 1898-99; Assistant in Chemical Department, Marion-Sims Medical College, 1899; Assistant in Chemistry, Missouri School of Mines, 1899-1900; Instructor of Chemistry, 1901; Student, University of Chicago, 1901; Cornell University, 1901-02; Professor of Chemistry, Missouri School of Mines, 1902.

ELMO GOLIGHTLY HARRIS, C. E.,

Professor of Civil Engineering.

Member American Society of Civil Engineers.

C. E., University of Virginia, 1882; Practicing Civil Engineer, 1882-91; Director Missouri School of Mines, 1891-92; Professor of Civil Engineering, Missouri School of Mines, 1891-1901; Associate Professor of Civil Engineering, University of Pennsylvania, 1901-03; Professor of Civil Engineering, Missouri School of Mines, 1903.





The Rollamo



DURWARD COPELAND, S. B.,
Sigma Rho, Tau Beta Pi,
Professor of Metallurgy.

S. B., Massachusetts Institute of Technology, 1903; Assistant to Professor H. O. Hofman and Instructor in Metallurgy, Massachusetts Institute of Technology, 1903-04; Instructor in Metallurgy and Ore Dressing, Michigan College of Mines, 1904-07; Professor of Metallurgy, Missouri School of Mines, 1907.

GUY HENRY COX, M. A., Ph. D.,
Alpha Chi Sigma, Tau Beta Pi,
Professor of Geology.

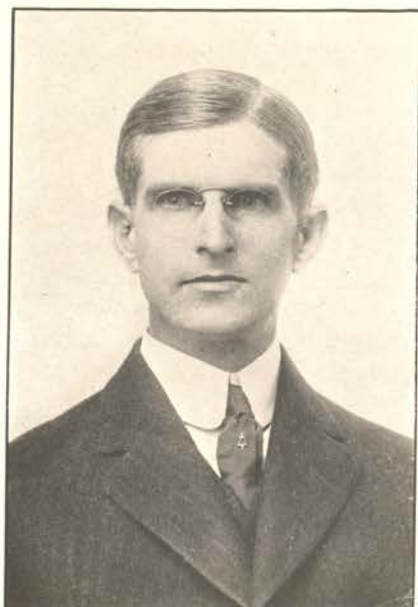
Member of California Mining Association.

B. S., Northwestern University, 1905; M. A., Wisconsin University, 1908; Graduate Student, School of Mines, University of California, 1905-06; Fellow in Geology, University of Wisconsin, 1906-07; Assistant Professor of Geology, University of California, 1907-08; University of Wisconsin, 1911, Ph. D.; Instructor in Geology, University of California, 1908-09; Assistant Professor of Mineralogy and Petrography, Missouri School of Mines, 1909-11; Professor of Geology, Missouri School of Mines, 1911.





The Rollamo



CARROLL RALPH FORBES, E. M.,

Sigma Rho, Tau Beta Pi,

Professor of Mining.

B. S., Michigan College of Mines, 1902; E. M., 1903; Assistant in Mechanical Engineering, Michigan College of Mines, 1901-02; Assistant in Mining Engineering, 1902-03; Engineer of Victoria Copper Mining Co., Rockland, Mich., 1903-06; Mining Engineer, Michigan Copper Mining Co., Rockland, Mich., 1906-07; Engineer, Nevada Smelting and Mines Corporation, Tonopah, Nev., 1907; Assistant Superintendent, Nevada Douglas Copper Co., Yerington, Nev., 1908; Graduate Student, Missouri School of Mines, 1908-09; Assistant Professor of Mining, Missouri School of Mines, 1909; Professor of Mining, Missouri School of Mines, 1912.

JOSEPH HENRY BOWEN,

Assistant Professor of Shop Work and Drawing.

Student Miller School, Va., 1890-95; Rhode Island School of Design, 1896-97; Machinist for Henry Blundell & Co., Providence, R. I., 1896-97; Machinist, 1897-98; Machinist and Inspector for Providence Engineering Works, Providence, R. I., 1898-99; Foreman, Brown & Sharpe Mfg. Co., 1899-1900; Designing Special Tools and Fixtures for Providence Engineering Works, 1900-02; Instructor in Shop Work and Drawing, Missouri School of Mines, 1902-06; Assistant Professor of Shop Work and Drawing, 1906.





The Rollamo



LEON ELLIS GARRETT, M. S.,
Tau Beta Pi,

Associate Professor of Mathematics.

B. S., Missouri School of Mines, 1901; Assistant in Mathematics, 1901-03; M. S., Missouri School of Mines, 1903; Instructor in Mathematics, Missouri School of Mines, 1903-06; Assistant Professor of Mathematics, Missouri School of Mines, 1906-11; Student, University of Wisconsin, 1911-12; Assistant Professor of Mathematics in Charge of Mechanics, 1911; Associate Professor of Mathematics, 1912.

LOUIS AGASSIZ TEST, A. C., Ph. D.,
Sigma Xi, Tau Beta Pi,

Assistant Professor of Chemistry.

Member American Chemical Society; Member American Association for the Advancement of Science; Member Copper Club; Member American Ornithologists' Union.

B. S. in Mechanical Engineering, Purdue University, 1894; A. C., 1896; Ph. D., University of Chicago, 1907; Graduate Student, University of Chicago, 1901-02; Assistant in Chemistry, Purdue University, 1896-97; Assistant Chemist, Colorado Agricultural Experimental Station, 1897-1901; Instructor in Chemistry, Purdue University, 1903-06; Professor of Chemistry, Occidental College, Los Angeles, Cal., 1907-09; Assistant Professor of Chemistry, Missouri School of Mines, 1909.





The Rollamo



JULIUS WOOSTER EGGLESTON, A. M.,
Psi Upsilon, Phi Beta Kappa,

Assistant Professor of Geology and Mineralogy.

B. S., Amherst College, 1898; A. M., Harvard University, 1901; Instructor in Geology and Mineralogy, Colorado School of Mines, 1901-05; Assistant in Geology, Harvard University, 1905-08; Instructor in Geology, Harvard University, Summer School, 1906; Assistant in Economic Geology, Harvard University, 1909-10; Assistant Professor of Geology and Mineralogy, Missouri School of Mines, 1910.

JOSEPH WAYNE BARLEY, Ph. D.,
Sigma Nu.

A. B., William Jewell College, 1897; Professor of English, Hardin College, 1900-1902; University Chicago, 1902-03; Professor of English, Hardin College, 1903-04; A. M., William Jewell College, 1905; Ph. D., University of Pennsylvania, 1911; Professor of English, Hardin College, 1911-12; Assistant Professor (in charge) of English and Modern Languages, Missouri School of Mines, 1912.





The Rollamo



HORACE THARP MANN, E. M., M. S.,
Pi Kappa Alpha, Tau Beta Pi,
Instructor in Metallurgy.

B. S. in Mining Engineering, Missouri School of Mines, 1908; M. S., Missouri School of Mines, 1909; E. M., Missouri School of Mines, 1901; Instructor in Metallurgy, 1908.

FREDERICK WILLIAM BUERSTATTE,
B. S. in M. E.,

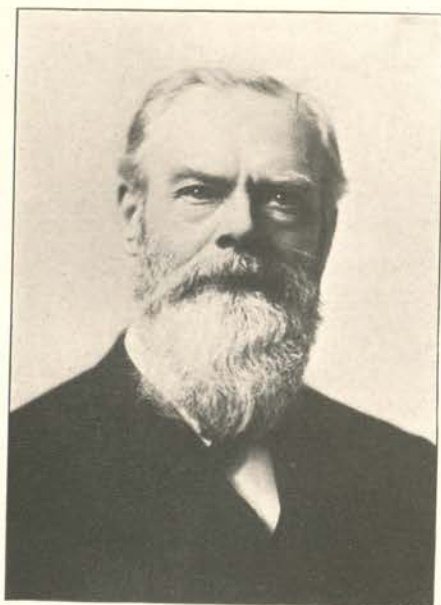
Instructor in Mechanical Drawing.

B. S. in M. E., University of Wisconsin, 1901; Apprentice, Mechanical Department, Chicago and Northwestern Railroad, 1901-05; Draftsman, Railway Appliance Co., 1905; Draftsman, Keystone Harvester Co., 1906; Chief Draftsman, Manchester Sargent Co., 1906-07; Chief Draftsman, American Well Works, 1907-09; Instructor in Mechanical Drawing, Missouri School of Mines, 1909.





The Rollamo



PAUL JULIUS WILKINS, B. S.,

Instructor in Modern Languages.

B. S., Michigan Agricultural and Mechanical College, 1869; Instructor in Modern Languages, Missouri School of Mines, 1877.

JOHN BENNETT SCOTT, B. S.,

Instructor in English.

B. S., Missouri School of Mines, 1907; Instructor in English, Missouri School of Mines, 1897.





The Rollamo



EDGAR SCOTT McCANDLISS, B. S.,

Instructor in Civil Engineering.

B. S. in C. E., Purdue University, 1909; Assistant Engineer, C. B. and Q. Railroad, 1909-11; Assistant in Civil Engineering, Purdue University, 1911-12; Instructor in Civil Engineering, Missouri School of Mines, 1912.

VACHEL HARRY McNUTT, B. S.,

Instructor in Mineralogy.

B. S., Missouri School of Mines, 1910; Instructor in Mineralogy, Missouri School of Mines, 1910.



 The Rollamo



EDWARD HARRY McCLEARY, B. S.,
Instructor in Physical Training.
B. S., in Mine Engineering, Pennsylvania State
College, 1910.

ALEXIS XAVIER ILLINSKI, B. S.,
Instructor in Metallurgy and Ore Dressing.
B. S., in Metallurgy, School of Mines, 1910.





The Rollamo



MARTIN HARMON THORNBERRY, B. S.
Assistant, Experiment Station.

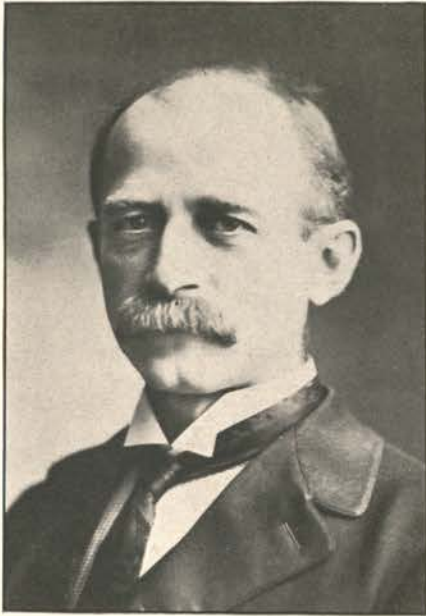
JESSE CUNINGHAM, A. B., B. L. S.,
Librarian.

Delta Tau Delta.

Member of the American Library Association;
Missouri State Library Association; Special Li-
braries Association.

Library Assistant, Indiana University, 1901-05;
Reference Assistant, University of Nebraska,
1905-06; Law Librarian, University of Nebraska,
1906-07; Assistant in the Law Department, New
York State Library, 1908-09; Municipal Refer-
ence Librarian, St. Louis Public Library, 1911-12;
Librarian, School of Mines, 1912.





EDWIN KAHLBAUM,
Registrar.



ROBERT R. DICKERSON,
Superintendent of Buildings and Grounds.

Student Assistants

LEONARD STEPHEN COPELIN,
Student Assistant in Chemistry.

WALTER GAMMETER,
Student Assistant in Drawing.

SCOVILL EDWARD HOLLISTER,
Student Assistant in Physics.

JOHN CHARAVELLE INGRAM,
Student Assistant in Chemistry.

FRANK LINDLEY JOHNSON,
Student Assistant in Shop Work.

MERVIN JOE KELLY,
Student Assistant in Chemistry.

RAY GOULD KNICKERBOCKER,
Student Assistant in Chemistry.

ENOCH RAY NEEDLES,
Student Assistant in Surveying.

The Senior Class of 1913

THE members of the Class of 1913 have witnessed great strides in the school since their entry into its halls just four short years ago. A new Library and Auditorium, new instructors, new courses, change from a term to a semester basis, and the restoration and practice of the good word "Boost."

Heartily in touch with everything for the good of the school, they have entered joyfully into all the activities. Men of 1913 are among those whose deeds in athletics will long be remembered. "E's" and "G's" plentifully besprinkle the pages of the record given to the preservation of scholastic worth. In all the work and play of student life they have been leaders.

In the history and record of the future they are destined to again take the lead in that wider institution of learning, the business world. Hidden depths, honeycombed with innumerable burrowings, will yield their metallic store to our Mining Engineers. Grimy smelters and mighty mills will strip away the dross and gangue under the skilled hands of our Metallurgists. Another blank space in the periodic table may be filled by our Chemists. Mighty waterfalls will be harnessed to the service of man by our Civil Engineers.

Every man of the Senior class has a place in the world of accomplishment. Their return to the school for the past four years of care will be in doing something for the betterment of the world and in the cherishing a loyal and undying affection for Alma Mater.



The Rollamo



DEXTER ELI ANDRUS,

Rockford, Ill.

Phi Kappa Sigma.

Quo Vadis.

Argonauts.

M. S. M. A. A.

Mining Association.

"M" Football, 1909-10-12.

This is "Andy" of uncertain age, passable habits and holder of a political record. The only man in the world who was known to have received the telegram notifying him of his election as county surveyor while reading the letter that offered him the nomination. To be remembered at M. S. M. as the originator of the brilliant idea of allowing the Thermo class to work his thesis for him.

CHARLES BRAMSON,

Rolla, Mo.

Mining Association.

Cosmopolitan Club.

"Csar." The man in the Senior class that comes up for everything that he is asked for and does it with an open heart. Famous for talking so you can't understand him and for knowing more than the average man has a right to know. Also will be remembered as the fellow that made the green caps and gowns possible St. Pat's day.

Came from Russia and says that he never will go back.

"Quit playing with me."





The Rollamo



LYMAN HERBERT BROOKS,

Sheridan, Wyo.

Sigma Nu.

Student Council, 1911-12.

M. S. M. A. A.

Football Squad.

Baseball Squad.

From the sheep ranges came Brooks and brought a strong dislike for the term "Herder." Tho lovingly christened "Lyman Herbert," the handle has not been much used as he is mostly known as "Gov." For two years he was girl shy, but finally succumbed, understudying Katz in the P. G. course. Being the first man to substitute Cyaniding for Hydraulics was one of his great achievements.

"Number?" "Give me Powell's residence, please."

TIRSO CASTILLON,
Torreon, Coahuila, Mexico.

Cosmopolitan Club.

P. B. C.

Y. M. C. A.

M. S. M. A. A.

"M" Basketball, 1912.

Beanery.

"Tirso," El Toreador! If you don't believe it we will show you the picture. Fond of the ladies and just the best fusser we ever had. Famous for telling funny stories without realizing it. Never known to worry about work and never will.





The Rollamo



FRANK WESLEY CODY,

St. Joseph, Mo.

Kappa Sigma.

M. S. M. A. A.

Mining Association.

Mandolin Club.

Famous for being the most silent member of the Senior class. It has been said that he resembles "Vic Hughes" in his younger days. Has the queerest little grinning laugh and really means it. One of the few fellows that do not have any trouble in working.

LEONARD STEPHEN COPELIN,

Great Falls, Mont.

Kappa Alpha.

Mining Association.

Quo Vadis.

Orchestra, 1910-11-13.

M. S. M. A. A.

"Cope," the wizard on the violin. Is famous for having worked one of Mann's classifier problems in fifteen minutes. Is continually talking about Butte, but he makes it go. Likes to stick the Prof on some foolish question and has never been known to miss a chance of taking a holiday.





CHARLES YANCY CLAYTON,
Hannibal, Mo.

Kappa Alpha.
 Rollamo Board, 1911-12.
 Quo Vadis.
 M. S. M. A. A.
 P. B. C.
 Y. M. C. A.
 Miners' Minstrels, 1910-12.
 Athletic Board of Control, 1912-13.
 St. Pat's Committee, 1912.
 Junior Class President, 1912.

"Boots" is the real wit of the class; if you don't believe it ask him. Besides being so distinguished, he is some gun and if you need proof apply the same test as above. The kind of fellow that you will hunt for a long time before you find his equal. Came pretty near being a steady society man, but gave it up.

WILLIAM EHLERS, JR.,
St. Louis, Mo.

Kappa Sigma.
 M. S. M. A. A.
 Captain 1913 Baseball Team.
 Baseball "M," 1911-12.

Ehlers was recruited from Washington U. in his third year and sought to be a hero by taking C. E. Is at present uncertain whether he is a hero or a martyr. Has a pretty little story that he tells about how he was nicknamed. "Did" has a pitching arm of which he thinks a great deal and has done some clever work with it for the Miners' team. Famous for being the most graceful sprinter in school.





The Rollamo



AUGUSTUS WILHELM GLEASON,

Chicago, Ill.

Phi Kappa Psi.

Mining Association.

M. S. M. A. A.

Vice-President Senior Class.

Rollamo Board.

St. Pat's Committee, 1912.

Miners' Minstrels, 1911-12.

Annual Show, 1913.

Argonauts.

Beanery.

"Auggie" is famous for telling long stories and getting angry when you don't laugh. One of those unlucky fellows that do their best for what they think is right and succeed in getting results and a lot of people sore. Is noted for original ideas and especially the Rollamo "Square Dance."
"Guess what's next."

JAMES HOPKINS,

Ramey, Penn.

Tau Beta Pi.

M. S. M. A. A.

Quo Vadis.

Student Council, 1912-13.

St. Pat's Committee, 1912.

Grubstaker.

Not many years ago young Jim Hopkins crawled underground and asked for a job breaking coal. Worked there until he heard of Rolla and then he immediately came to the School of Mines. Has a sort of twisted idea that knocking is all right in its place. Manages to get along all O. K., even if some of the Profs do wonder how he does it. Not much of a fusser, but says he likes them just the same.

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The Rollamo



JOHN CHARAVELLE INGRAM,

St. Louis, Mo.

Theta Xi.

Tau Beta Pi.

P. B. C.

M. S. M. A. A.

Student Council, 1912-13.

Assistant Chemistry, 1912-13.

Argonauts.

Beanery.

"Jack" comes from Washington U. and has a habit of thinking that he is still there. Has all the Freshmen scared and sometimes makes his bluff work on Doc. Test. Is in for everything that counts and counts in everything he is in for. Will be remembered for the way he tickles his mandolin and for calling Metz down.

HOWARD KATZ,

Kissimmee, Fla.

Sigma Nu.

M. S. M. A. A.

Mining Association.

Mandolin Club.

Howard. Famous for coming so near to going to school and yet never getting there. Was a gun in Mine Surveying problems, but that was a long, long time ago. Says he never had to work and don't believe in it. His specialty at present is training "Gov." in the way he should go. Has Bill Jones' job.





The Rollamo



WILLIAM RALPH KNAPPENBERGER,

Brunswick, Mo.

Pi Kappa Alpha.

Orchestra.

Mining Association.

M. S. M. A. A.

In years to come, when we think of days and nights passed in Alma Mater, we will remember how the "General" used to cheer us up with such music as "Good Bye, Summer," or "When Irish Eyes are Smiling."

"Knappy" has been out in the cruel world and knows what we are all up against, which is probably the reason why he wants to take some one with him this time.

RAY GOULD KNICKERBOCKER.

Clymers, Ind.

Pi Kappa Alpha.

Quo Vadis.

P. B. C.

Student Council, 1912-13.

Rollamo Board, 1912-13.

Football Captain, 1911.

Football "M," 1910-11-13.

Track "M," 1910.

St. Pat's Committee, 1912.

Student Assistant Chemistry, 1912-13.

Sophomore Class President.

Who ever heard of Clymers? That's where "Knick" made his first flying tackle. Has belonged to some sort of bawl team ever since he was born. In for everything that is right and the kind of man worthy to represent M. S. M.





The Rollamo



PHILIP A. MOORE,

Chicago, Ill.

M. S. M. A. A.

Mining Association.

Beanery.

American Chemical Society.

"Westinghouse." One and the only one we have from that old town of "Chi" that does not show the least inclination to talk about it. A student from the very beginning, else why that magnificent brow and studious look? Has been known to cause the dear Professors some trouble by asking questions when they are least expecting them, and, all in all, is some "gun."

JOHN ANDREW MURPHY,

Ft. Pierre, So. Dak.

Kappa Alpha.

Quo Vadis.

Mining Association.

Captain Football, 1912.

Football "M," 1910-11-12.

Student Council, 1911-12.

End Man Miners' Minstrels, 1911-12.

St. Pat's Committee, 1912.

"Murph," our Irish lad with the droll sense of humor and Irish smile. How well we will all remember his funny stories and his hearty laugh. A man who does things and fellows, and does them in the right way. Originator of the G. S. Gala day and the only man in school who can render "Christopher Columbo."





The Rollamo



HOLMAN THOMPSON MARSHALL,
Sioux City, Ia.

Sigma Nu.

Student Council, 1911-12.

Class Basketball Captain, 1910.

Secretary Athletic Association, 1912-13.

Track "M," 1911-12.

"Duke" is one of that tried and true bunch that come from the wilds of Iowa, where athletes grow on bushes and the bushes are large and numerous. Showed everybody up when it came to the broad and high jumps. Is famous for limiting himself to one letter a day and is never known to miss a chance to write every night.

Will be remembered as the only fellow that ever dared smoke in Doc. Test's lab.

HARRY HACKETT NOWLAN,
Cheyenne, Wyo.

Sigma Nu.

Tau Beta Pi.

P. B. C.

End Man Miners' Minstrels, 1911-12.

Mining Association.

M. S. M. A. A.

Y. M. C. A.

Annual Show, 1912.

St. Pat's Committee, 1912.

Rollamo Board, 1911-12.

President Senior Class, 1912-13.

Cheer Leader, 1912-13.

Harry is too well known for us to attempt to say how much he has meant to M. S. M. The man that put the pep into this year's athletics by his efforts in organizing the rooting and seems to naturally do the right thing at the right time.





The Rollamo



DONALD HEWSON RADCLIFFE,

Kansas City, Mo.

Pi Kappa Alpha.

M. S. M. A. A.

Track Squad.

Assistant in Geology.

"Rad" comes from that never-to-be-forgotten village of K. C. Has been known to try to dance and some say that he can. A hard worker and believes in taking long walks on Sunday afternoon. Both of which go together.

"Magmatic Segregation."

J. FREDERICK SEWARD,

Hillsboro, Ill.

Sigma Nu.

P. B. C.

M. S. M. A. A.

Miners' Minstrels, 1911-12.

Rollamo Board, 1912-13.

Secretary-Treasurer, Senior Class.

"J" is a coal miner from that good old State of Illinois. Has a heart so big that they say he gave it so some one else to keep for him. Never was known to be without a good story and to us all is our "good fellow." Will be remembered as toastmaster at the "dinner" after the Oklahoma game at Joplin.





The Rollamo



HARRY WILLIAM SHAW,

St. Louis, Mo.

Tau Beta Pi.

Y. M. C. A.

Mining Association.

Grubstaker.

M. S. M. A. A.

St. Pat's Committee, 1912.

Rollamo Board, 1912-13.

The coal mining engineer of the class is Shaw. Already served as an expert witness and is said to have appeared in court and plead his own case, had a favorable verdict returned and is to start serving time in June. He admits that she is some fine girl.

Taught Forbes all he knows about coal mining.

ROBERT GLENN SICKLY,

La Harpe, Kansas.

Tau Beta Pi.

M. S. M. A. A.

Quo Vadis.

Grubstaker.

This "Pride of Tau Beta Pi" took up his first studies at La Harpe, Kan., and at the early age of three days made an analysis of the local milk supply. His parents, proud of his achievement, carefully educated him to send to the School of Mines. Seems to be fitted by nature to become a dancing master. His excuse for living is having made a Tau Bet out of Hopkins.





The Rollamo



RICHARD WAGSTAFF,
Springfield, Mo.

Kappa Alpha.
A. B., Drury College.
Mining Association.
Treasurer M. S. M. A. A.
"M" Football, 1910-11.
"M" Baseball, 1910-11.

Did you ever wonder where Dick got that breezy maner of his when he talks of baseball and how it is played? Well, the explanation is, he was born in K. C. Has laughed ever since he was a little boy and is always happy. Is a worker and takes great delight in tangling "Boots" up in some Mett problem. If we had all done as much for M. S. M. as Dick, we could be proud with reason.

"Well, they don't do that way at the Utah Cop."

JOHN NIXON WEBSTER,
Creston City, Ia.

Kappa Sigma.
P. B. C.
M. S. M. A. A.
Quo Vadis.
"M" Track.
"M" Baseball.

Rollamo Board, 1912-13.
St. Pat's Committee, 1912.

If you do not believe that Iowa is the State of athletes, watch Johnny hold down second in the next game or get the jump on all of them in the hundred-yard dash. Made Creston City famous by subscribing for it's only daily and says it is the only place worth living in outside of St. James.

"Come on now, Cody."





The Rollamo



THADDEN C. WILSON,
Springfield, Mo.

Mining Association.

M. S. M. A. A.

R-Way.

Miners' Minstrels, 1911.

B. S., Drury College.

Wilson is to be remembered as the Ore Dressing shark of the class and stands high in the favor of the Profs. Is remarkably quiet and we think that there might be a reason for such, although we have never heard where she lives.

JOHN W. GREENE,

Liberty, Mo.

Kappa Sigma.

M. S. M. A. A.

Student Council, 1912-13.

A. B., William Jewell College.

"Johnny" is the sort of a fellow we will all be wishing for when we are down and out and need some one to help the good cause along. Has been known to work when he really got interested. Famous for wearing large hats and new shoes. Says that he is not Dutch, like Ehlers, and that he has held some positions, but none permanently.









The Junior Class



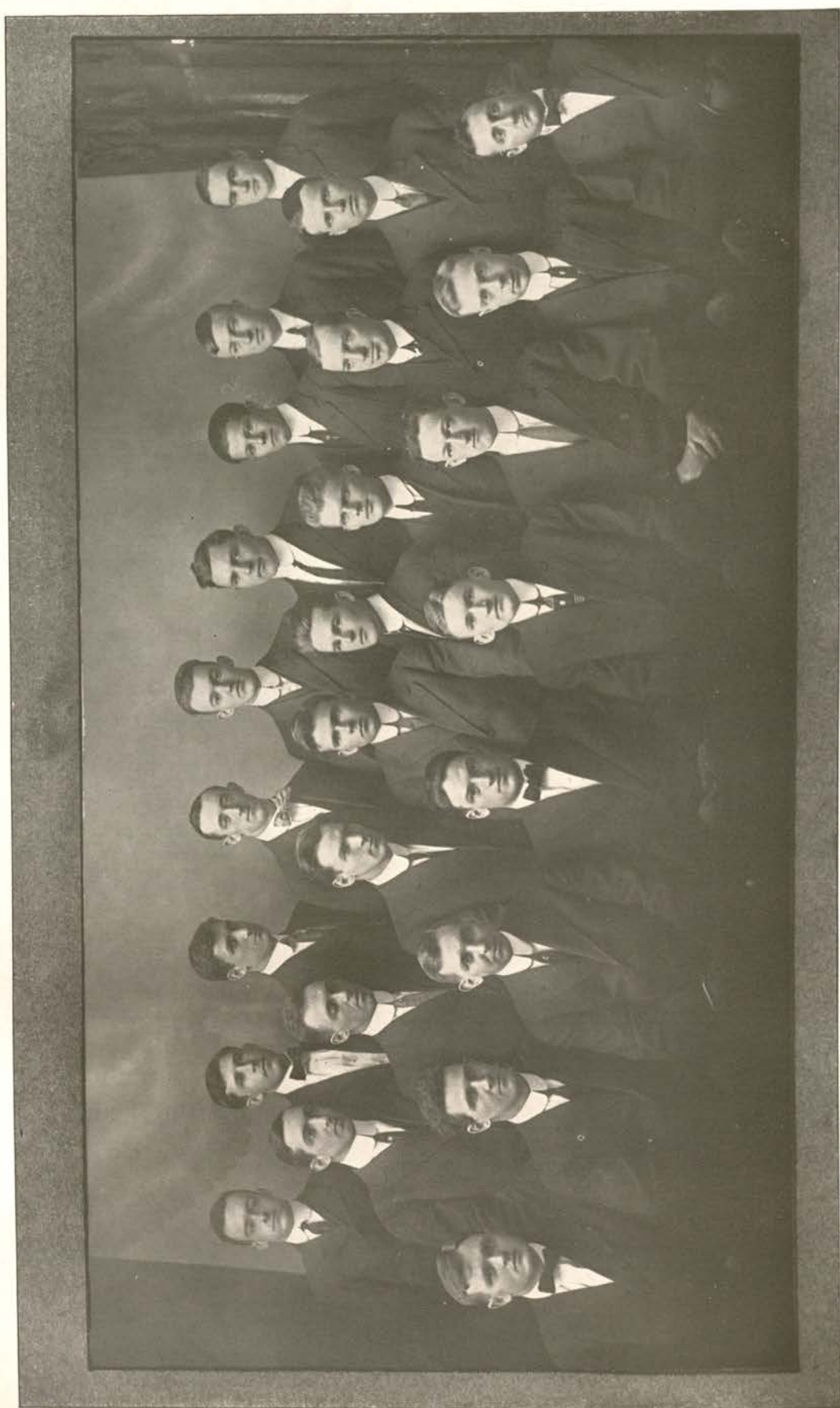
R. SIMRALL, President

ENTERING the School of Mines in September, 1910, the Junior class became acquainted on a trip to Panther Bluff. This time-honored journey was made in great shape and was properly celebrated. We were the last class to make this pilgrimage. On our return, Green Cap Day, we got ours as Freshmen should. We had many great meetings, of which a coon hunt ending in a dance was a memorable occasion. We brought many athletes to the school and some great students.

Next year we returned, and tho losing some of our former classmates, added new ones to keep up our numbers. Tho outnumbered by the Freshmen, we successfully won the class scrap, tied and paraded them. We kept things going in good form. We were always in on all the school activities and had a few of our own that the school was not in on. We sent good men out to win fame for the school on the football and baseball teams. In track we had the pride of the school. Always we had a man on the basketball team. The majority of our number kept up a Tau Beta pace in school and still had time to be good fellows.

Electing R. M. Simrall as Class President was our first good work of the present year. We sent the pick of the school to represent us on the Student Council. Again we contributed good men to athletics. The prides of Tau Beta Pi are the members from our class. We take great pride in the way our committee handled the St. Patrick's Day celebration of this year. It is not for us to describe it. That is done elsewhere in this book. We look forward to a Junior Prom and a trip to Arlington.

Thruout the years of our attendance here we have worked for the good of the school. We have strived to help, not hinder. When we saw opportunity for improvement we sought to bring it about honorably and fairly, and when we did not meet with success we met the inevitable like men. Next year we hope to come back full strength and do everything in our power to make the year of our graduation one to be long remembered at the School of Mines.





The Rollamo



Junior Class Roll

Blair, John Merrill	Carthage, Mo.
Boucher, Leonidas James	Marshalltown, Iowa.
Collins, Lawrence	Rolla, Mo.
Cowman, Gerard	Rolla, Mo.
Crutcher, T. Estus	Marshall, Mo.
Cushwa, Claude Calvin	Independence, Mo.
Downing, C. V.	Kirksville, Mo.
Finagin, Jr., Joseph Cooper	Rolla, Mo.
Goldsborough, Thaddeus Reamy	Washington, D. C.
Hall, Clyde Willis	Moundville, Mo.
Halsey, Howard Gove	Kansas City, Mo.
Hatch, Sidney Raymond	Rolla, Mo.
Hogoboom, William Coryall	Los Angeles, Cal.
Kayser, Edwin Alexander	St. Louis, Mo.
Kelly, Mervin Joe	Lathrop, Mo.
Lodwick, Llewelyn	Ottumwa, Iowa.
Martin, Elmer Dean	Kansas City, Mo.
Metz, Gilbert Frank	St. Louis, Mo.
Miller, Jr., Julius C.	Joplin, Mo.
Moses, Fred Gallaway	Kansas City, Mo.
Needles, Enoch Ray	Kansas City, Mo.
Pierce, William Wallace	Rolla, Mo.
Robson, Thos.	Potosi, Bolivia, S. A.
Simrall, Riley Marsh	Liberty, Mo.
Smith, Clinton D.	Austin, Minn.
Stoliker, Edmond Otis	Creston, Iowa.
Stroup, Jacob Carlton	Rolla, Mo.
Thomas, Thomas Rae	St. Louis, Mo.
Truex, Arthur Fuller	Rochester, N. Y.
Wager, Walter Henry	Newtonia, Mo.
Walton, Roland Ralph	Higbee, Mo.



"AND WHEN YOU WALKED
T WAS HERE YOU WALKED — WITH HER"



Sophomore Class



1915

History of the Sophomore Class



JOSEPH COLE, President

THE history of the Class of 1915 properly begins with the opening of school, September 12, 1912. As Freshmen, we were bound together by common ties. With Schwegler as our leader we organized and made preparations to fight the fight of our lives on Green Cap Day.

During the first week of school we received some rough treatment from the upper classmen, but only took what was forced upon us. Green Cap Day found us eager for the fight which meant so much for both classes involved. After a long, hard fight the Sophomores succeeded in tying us up and proceeded to parade us around town.

In athletics we surpassed our own expectations. We tied the Sophomores in football, defeated them in basket ball, and ran an even race with them in baseball. In track we completely outclassed them, so we took only what belonged to us, "the honors in track."

A large percentage of our class returned this year, still a few of the old comrades were missing. The vacancies were soon filled, however, with new men. We returned this year with a feeling of increased security, which received quite a shock when we were informed that the Freshmen numbered some ninety men. Our two dozen and one seemed quite small in comparison.

Aves was chosen for President. The school authorities decided to abolish the "Green Cap Fight," and by mutual consent of the two classes, and in fact by the consent of the whole school, the day was done away with. The Student Council took charge of the situation and issued a set of regulations regarding the future relations between the two lower classes.

When our younger brother, the Freshman, wanted us to play football, we consented. Although, according to the "school dope," we were defeated before we came upon the field, we proceeded to play the Freshmen to a standstill, in fact we had a shade the better of the contest, although the score was 0 to 0.

Since the beginning of the second semester, our class has lost two of its best men. Aves and Schwegler, both good students and athletes, left school to take up practical mining. As Aves was our Class President, his leaving left a vacancy which was immediately filled by Cole. In Cole, who is a new man this year, the class has secured a valuable leader whose ability as an athlete and as a student has been quickly recognized by the whole school.

As a class, the Class of 1915 has always done the part that has proved the loyalty of its members to the school. In all branches of athletics we have been well represented, and quite a few of the stars in all lines of athletics have come from our class.

R. W. HAYDEN, "1915."

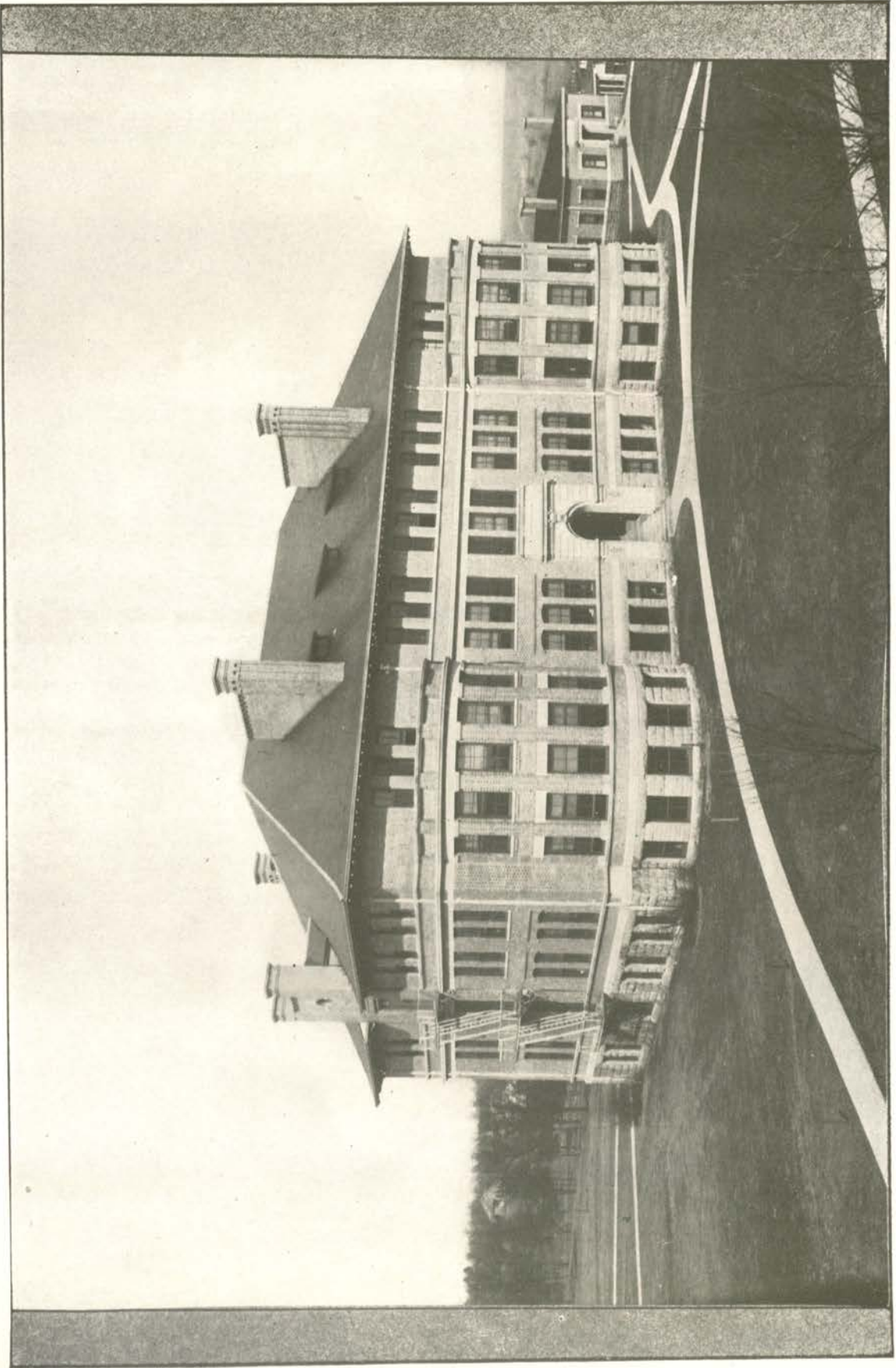


The Rollamo



Sophomore Roll

Aves, William Leonard.....	Seabrook, Texas,
Benham, Willard M.....	Elvins, Mo.
Canoll, Leon Horton.....	Rolla, Mo.
Cole, Joseph Bryant.....	Joplin, Mo.
Damotte, Edward Victor.....	Rolla, Mo.
Doyle, John Joseph.....	St. Louis, Mo.
Elayer, Carl Sigmund.....	E. St. Louis, Ill.
Elliott, William.....	St. James, Mo.
Erskine, Greene.....	St. Louis, Mo.
Fernandez, Arturo C.....	Monterrey, N. L., Mex.
Finley, Delbert Dale.....	Wellington, Kas.
Galloway, Ralph Arthur.....	Hutchinson, Kas.
Gammeter, Walter.....	St. Louis, Mo.
Gildehaus, Paul Emmit.....	St. Louis, Mo.
Griffin, Roy Watson.....	Cleveland, Ohio.
Hanni, Frederick Henry.....	Troy, Mo.
Hayden, Roy Wilber.....	Muncie, Ind.
Johnson, Frank Lindley.....	St. Louis, Mo.
Kaplan, Abel.....	St. Louis, Mo.
Kline, Harry Daniel.....	Rolla, Mo.
Leavitt, Joseph Edwin.....	Houston, Mo.
Lepper, Lewis Edward Weston.....	Marlboro, Mass.
Lyons, Leo Daniel.....	Springfield, Mo.
McCague, Thomas Purcell.....	Medicine Lodge, Kas.
Maher, John Ralph.....	Rolla, Mo.
O'Neill, Charles Henry.....	Webb City, Mo.
Ruebel, Jr., Ernest H.....	St. Louis, Mo.
Schroer, Edward Albrecht.....	Clayton, Mo.
Schwegler, Karl G.....	Washington, D. C.
Shotwell, Jr., John Warden.....	Chihuahua, Mex.
Trent, Albert Leo.....	Johnstown, Pa.
Wilkins, Ralph.....	Idaho Springs, Colo.
Wilson, Homer Mirvin.....	Del Rio, Texas.



Freshman Class



1916



Freshman Class History



E. H. WOOLRYCH, President

WELL, Bo, here we are at the end of our Freshman year, a-waitin' 'round to pull out of this here place. Guess as how we don't look much like that there bunch what pulled in here last September. Nine months in this old school oughter be enough to rub most of the green off any Freshman that ever was.

Lookin' over the list, peers we're bout all here too. We started in with a big class and most of us have managed to git through this year. We sure have had some mighty good times which we will look back upon in future years.

Course, we was green! We ain't a-denyin' it; them there upper classmen said we was the ones that put the "fresh in Freshman" and peers to me that's just about so. But just the same we was a mighty lively bunch, always ready to boost everything, and I guess we didn't pull off some stunts that these here natives'll talk about fer some time to come.

Recollect how we organized and after much discussin' elected Ed Woolrych, President; Cliff Siegrist, Vice-President; "Tex" Scheurer, Secretary and Treasurer; "Buck" Mountjoy, Student Council Representative, and the peerless "Fatty" Muench, Sergeant. An' how we decided to wear them there green caps just to keep up a school tradition.

Guess as how we didn't have some athletes too. Five of us—Mountjoy, Heavner, L. Marquiss, Schuman and Miller—got their "M's" in football besides havin' a good bunch of second-string men. Some of our boys were pretty fair at basketball too; Remy, Mountjoy and Kamp made the squad.

Reckon we didn't have some banquet too; 'member how "Bill" Painter, '82, who is now Lieutenant-Governor up at Jeff City, came down to be our guest? Didn't old "Stretch" Mize make some toastmaster, tho? We sure showed 'em some class in the banquet line.

Yes, pal, I guess we've had some pretty good times. Besides, we've learned a heap too.

I swear I'm so full of "unity, emphasis, and coherence" that it can be seen a-stickin' out all over me. 'Member how some of 'em got so interested (?) in their work that they used to have a class at 7:30 in the mornings? An' will you ever forget that kind of wit (?) which that bunch back in the corner of the drawin' room used to pass out while the rest of us was a-tryin' to work out Mr. Buerstatte's intersections and developments. Them were sure great days, weren't they, Bo?

Well, here comes No. 4, so I'll say good-bye till next year. Rolla's a pretty good place and I guess we'll all be back next year ready to stick together an' to boost everything for the good of the school.



The Rollamo



Freshman Roll

Adams, Bernard William	Hamilton, Mo.
Allen, John James	St. Louis, Mo.
Arpe, Edward William	St. Louis, Mo.
Baker, Charles Albert	Rolla, Mo.
Beeghly, Wood Davis	New York City, N. Y.
Bennett, Roy Linwood	Raton, N. M.
Bland, Clark C.	Rolla, Mo.
Bower, Clyde W.	Sedalia, Mo.
Brown, James Wm.	Falls Church, Va.
Cameron, Robert Duncan	E. St. Louis, Ill.
Campbell, E. Wallace	Carthage, Mo.
Chamberlain, Carleton Guy	St. Louis, Mo.
Cole, John Thomas	Frederickstown, Mo.
Corey, Greyton C.	Chicago, Ill.
Craig, Robert	Osage City, Kas.
Danielson, John Ronald	Anaconda, Mont.
Dean, Reginald Scott	Rolla, Mo.
Deutman, Earl George	St. Louis, Mo.
Dowd, James Joseph	St. Louis, Mo.
Dunham, Azmon Thurman	Craddock, Mo.
East, Mervin Glazier	Rolla, Mo.
Elliott, Loren Ferrell	Rolla, Mo.
Fitzpatrick, James Anthony	Anaconda, Mont.
Galbraith, John Gray	Waverly Mills, S. C.
Gale, Albert Charles	Rolla, Mo.
Gannon, Kenrick Irwing	St. Louis, Mo.
Garesche, Rowe A.	St. Louis, Mo.
Good, Charles	St. Louis, Mo.
Hanrahan, James	Rolla, Mo.
Head, James Lawrence	Moberly, Mo.
Heavner, Alonzo	Lebanon, Mo.
Heimberger, Harry Tobias	Rolla, Mo.
Heman, Fred Richard	Fort Dodge, Ia.
Henley, William Gibbons	Carthage, Mo.
Hoffman, John Stone	Leon, Ia.
Hoppock, Lewis Needham	Lebanon, Mo.
James, Floyd Dixie	St. Louis, Mo.
Johnson, Gunnard Edmund	Great Falls, Mont.
Jones, Earl Ambrose	Rolla, Mo.
Kamp, Wm. Henry	St. Louis, Mo.
Keeling, Orval	Rolla, Mo.
Klepai, Yaro	St. Louis, Mo.
Krebs, J. J.	Lake Charles, La.
Lawrence, Nathaniel M.	St. Louis, Mo.
Lee, Charles Alfred	Rolla, Mo.
Lee, James Thomas	Rolla, Mo.
McCartney, William Henry	Webster Grove, Mo.

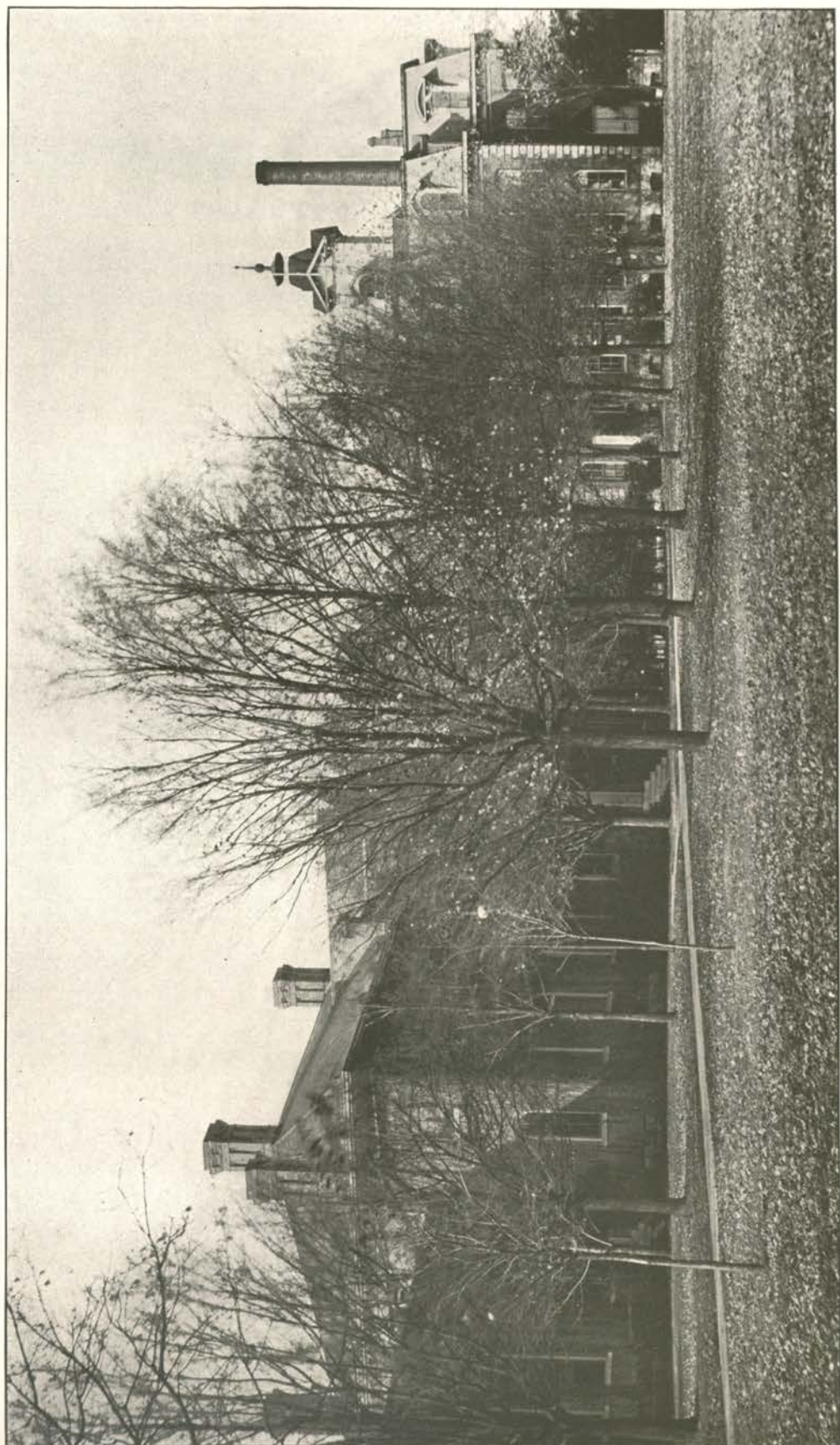


The Rollamo



Freshman Roll—Continued

McKinley, Lionel William.....	Fort Dodge, Ia.
Mann, Harlan Oliver.....	Aurora, Mo.
Marquiss, Frank Elsworth.....	Webb City, Mo.
Marquiss, Louie.....	Webb City, Mo.
Marsh, Harold.....	Thayer, Mo.
Martin, Thurman Ephian.....	Lancaster, Mo.
Miller, Elton A.....	Carbondale, Ill.
Miller, John Charles.....	St. Louis, Mo.
Miller, Robert McClain.....	Cairo, Ill.
Mit, Otto Robert.....	Joplin, Mo.
Mize, Charles R.....	Independence, Mo.
Mountjoy, Richard LeRoy.....	Webb City, Mo.
Muench, Raymond Eugene.....	Union, Mo.
Neustaedter, Harold Arthur.....	Jersey City, N. J.
O'Brien, John Francis.....	Rolla, Mo.
Paar, Henry Adolph.....	Jackson, Mo.
Patten, Cecil Clemant.....	Webb City, Mo.
Perry, Eugene S.....	Danville, Ill.
Reaves, Harry H.....	Kansas City, Mo.
Remy, Clayton LeRoy.....	Mansfield, Ohio.
Sailer, Edward Louis.....	Cape Girardeau, Mo.
Sawade, Charles Francis.....	St. Louis, Mo.
Scheurer, Leroy Robert.....	Wichita Falls, Texas.
Schuman, Edwin Kaine.....	Rolla, Mo.
Schuman, John Morris.....	Rolla, Mo.
Sides, Harry.....	Webb City, Mo.
Siegrist, Clifford Joseph.....	Festus, Mo.
Smith, Virgil X.....	Rolla, Mo.
Spafford, Roy.....	Moran, Kas.
Stewart, Milton W.....	Independence, Mo.
Stromvall, Ernest Malcolm.....	W. Somerville, Mass.
TenBrook, Baarant.....	St. Louis, Mo.
Tompkins, Edwin Lee.....	E. Orange, N. J.
Torp, Charles Albert.....	Higginsville, Mo.
Triefenback, George Louis.....	St. Louis, Mo.
Trowbridge, Henry Anthony.....	Rolla, Mo.
Turnbull, Louis Alan, Jr.....	St. Louis, Mo.
Turner, James Deyell.....	Springfield, Mo.
Tyson, J. E.....	Rolla, Mo.
Ude, George Edgar.....	St. Louis, Mo.
Vogel, Herman.....	St. Louis, Mo.
Vogele, Allen W.....	Sabetha, Kas.
Weiberg, Earl.....	Springfield, Ill.
White, Kenrick.....	Rolla, Mo.
Wilkerson, Riley D.....	St. Louis, Mo.
Woolrych, Edmund Hugh.....	St. Louis, Mo.
Wornall, R. B.....	Liberty, Mo.
Worthington, Williard Thomas.....	Moran, Kas.





The Rollamo



In Memoriam

ERNEST C. WILSON, ex '13

EARL HALLEY, ex '13

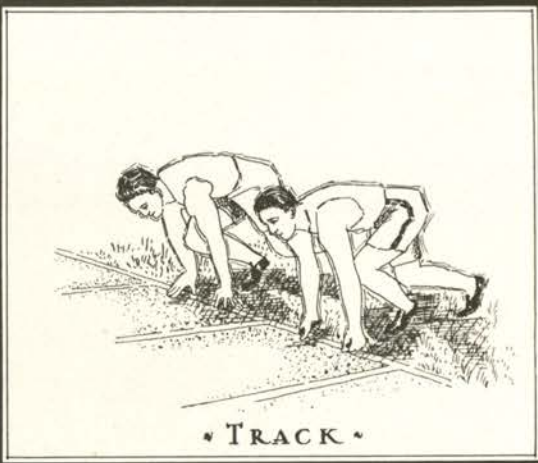
HARRY A. THRUSH, ex '13







• BASEBALL •



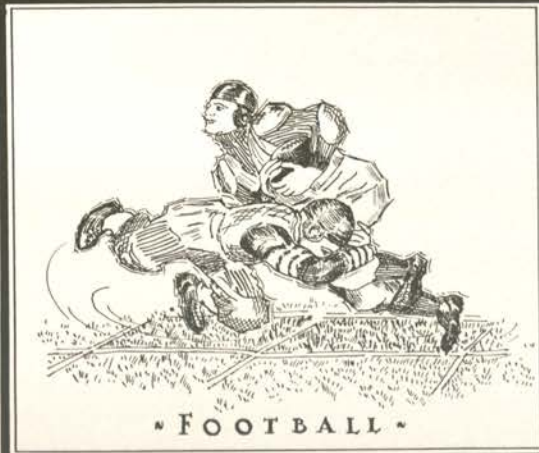
• TRACK •

"AT THE
GAME"

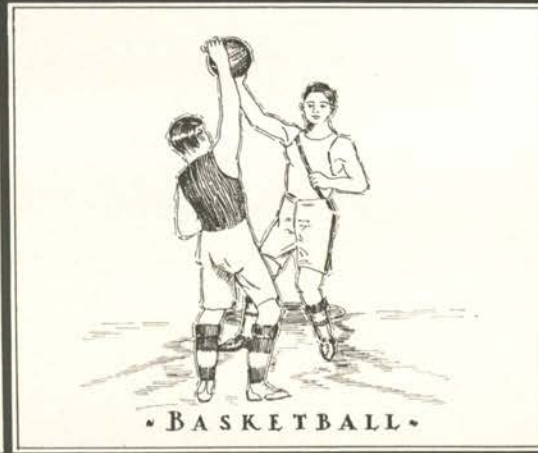
A black and white illustration of a woman standing on a platform or balcony. She is wearing a long, dark coat and a large, ornate hat with feathers. She holds a long, thin object, possibly a cane or a flagpole. A banner with the word "WINNERS" is visible behind her. The artist's signature "J. G. 1918" is at the bottom right of the illustration.

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A black and white illustration of a large, circular gear. Various tools, including a wrench, a screwdriver, and a hammer, are positioned around the gear, suggesting mechanical work or industry.



• FOOTBALL •



• BASKETBALL •



The Rollamo



Football Review of the Season of 1912

FOOTBALL practice started at the opening of school with E. H. McCleary in charge and thirty-five men on the squad. Of the 1911 squad six "M" men reported for practice, Murphy, Stoliker, Aves, Knickerbocker, Hollister and Lodwick. Andrus, who won his "M" in 1910, was also out, as were Shotwell, Lyons and Hanni of the 1911 squad.

Under the tuition of "Mac" and steadied by the older men things soon began to shape themselves, and on October the fifth the first game was played with Springfield Normal on Jackling Field. The Springfield team was lamentably weak, not putting up sufficient opposition to warrant calling the game even a practice game. Despite the fact that every man who had appeared in a suit previous to the game, was put in, the final score was 64-0 in favor of the Miners. The second game was played at Columbia on October twelfth.

UNIVERSITY OF MISSOURI, 14; MINERS, 0.

Handicapped by an inexperienced backfield and up in the air for the first few minutes of play, the Miners were unable to head off the touchdown made by Missouri in the first quarter. Though the Rolla line outplayed the Tigers, they slipped over another in the second quarter, but from then on to the end the Miners held their own in a way that did them credit. Given a backfield with the ability to carry the ball, the score would have been evened up. The ball stayed in Rolla's territory during the last two quarters, but they could not put it over. Whenever the ball reached dangerous ground the Miners tightened up and held them for downs.

The Miners' line was exceptionally good, with Miller (J. C.) and Andrus starring. In the backfield Aves, the 130-pound wonder, starred, and Mountjoy did good work. Knobel and Wiggans did the work for Missouri.

ST. LOUIS, 13; M. S. M., 0.

On a fluke, with three Rolla men outside the field of play supporting an injured end, St. Louis U. made a touchdown on the first play of the game. The referee refused to declare the score off. Then the Miners started in to make Dennie's men work as they had never worked before. In the second quarter the game was headed Rolla's way, but in the third St. Louis slipped over another score. The fourth was an even break. The same inability to advance the ball was present in the Rolla backfield.

Aves again commanded the appreciation of the fans. The team showed great improvement over the work in the Missouri game, and were in better condition.

WASHINGTON U., 13; M. S. M., 7.

Winning the respect of the largest crowd that ever assembled on Francis Field and putting up the gamest exhibition of football ever seen in St. Louis, the M. S. M. eleven met the fast Washington U. team.

On the first kick-off the Miner halfback, Miller, caught the ball when Milford, tackled by Knickerbocker, fumbled, and unmolested, crossed the goal line for the first touchdown of the game.

Favored by the first piece of luck of the year, full of fight as always, confident, ready and fast, the Miners played football. Their attacks were met by worthy opponents and it was a fight for every inch. Back and forth the ball passed until the end of



The Rollamo



the second quarter, when Milford crossed the Miners' goal line for Washington's first score.

The third quarter began by Morrel receiving Lodwick's kick and advancing the ball to the Miners' thirty-five-yard line. By line plunges they carried it to the fifteen-yard line, where they were held for downs, and in four plays the Miners carried it to Washington's twenty-yard line. The last gain was made by Mountjoy carrying the ball around left end for thirty-five yards. Being held for two line plunges, the Miners attempted a forward pass, which was fumbled; tried again, and lost the ball on downs. The ball changed hands frequently during the next few minutes of play, staying close to the center of the field. With but a few minutes to play, Washington kicked, Hardway gained the ball, after a doubtful fumble by Aves, and crossed the line for the winning touchdown. During the remainder of the game the ball was kept in the center of the field.

Undoubtedly the Miners played their best game of the season. Few fumbles or penalties marred the game, and the good feeling showed by both the players and the rooters made it one of the cleanest and hardest fought games ever played.

Andrus, the old reliable, at tackle, held up his side of the line in fine shape. His run of thirty yards was one of the most spectacular plays of the game.

DRURY, 13; M. S. M., 0.

To those who have followed the team it seemed incredible that we were beaten by Drury College. In the three previous games against far better teams than the Drury aggregation, the Miners played hard and heavy football. In the Drury game they were beaten at the start. Drury started out like a typical high school eleven looking for a raw deal and talking like a woman's sewing circle. They played forward passes continually and their reception was rarely interfered with. The field was muddy and the Miners were slow in getting into action. While the work of Nixon and Dillard was exceptionally good, the team as a whole was not to be compared with any of the others that Rolla had been up against.

MINERS, 13; OKLAHOMA AGGIES, 7.

By two spectacular touchdowns Rolla won from the Sooner Aggies. Neither side scored till the third quarter, when O'Neil made good a forward pass from Mountjoy. Soon after Woodson, Oklahoma's right end, intercepted a forward pass, making a run of fifty yards for a touchdown. The score was then six to seven, the Miners having failed to kick goal. During the last few minutes of play the Miners wrested their victory from an almost hopeless situation.

Pluck and luck played equal parts in the winning. With the ball on the Aggie's forty-yard line and the Oklahomans holding like a stone wall, the Missourians decided to try a drop-kick. Mountjoy took the ball for a kick, but instead of going into the air it skimmed along the ground, shot through the Aggie's line and over the goal line. One of the Aggies touched the ball as it bounced along, but failed to stop it, and Miller, the Miners' center, put it behind the goal posts. The play was not clearly seen by most of the spectators, but they rushed on the field by hundreds, shouting, yelling and gesticulating. Referee Wade was surrounded by excited players. He listened to the argument for several minutes, then ruled "touchdown."

During the game Rolla made many attempts at the forward pass, completing but one. The tackling of Cole was the hardest and best ever seen. Stoliker's punting against the wind was a feature. Knickerbocker made one run of thirty yards through the line.



The Rollamo



Athletic Board of Control

J. H. Bowen, President.

E. Kahlbaum, Secretary.

G. H. Cox

C. Y. Clayton

E. H. McCleary

Athletic Association

J. H. Bowen, President.

H. T. Marshall, Secretary.

E. H. McCleary, Coach.

E. Kahlbaum, Treasurer.

R. A. Wagstaff, Assistant Coach.

C. Y. Clayton, Manager.

Harry Nowlan, Cheer Leader.

CAPTAINS OF THE TEAMS. SEASON 1912-13.

J. A. Murphy, Football.

G. H. Cowman, Track.

L. L. Lodwick, Basketball.

Wm. Porri, Baseball, 1912.

Wm. Ehlers, Baseball, 1913.

THE "M" MEN.

Baseball, 1912.

Bowman

Hall

Porri

Conway

Kline

Schwegler

Coover

Lodwick

Thomas

Ehlers

Lacey

Webster

Football, 1913.

Andrus

Knickerbocker

Miller, J.

Aves

Lepper

Moutjoy

Boucher

Lodwick

Murphy

Cole

Marquiss

O'Neill

Hollister

Miller, E.

Stoliker

Heavner





The Rollamo



E. H. McCLEARY, Coach.

"Bull" McCleary, born in a mining region, and a graduate in mining. Player, captain and coach on Penn State teams. A good fellow and a man all thru. Listen to him in practice. Commendation is the rule. Criticism comes hard and fast when needed. Always ready with precept and example. Developing husky, heady players. His men with him first, last and always. Plays originated that after the Miners' game the other coaches teach their teams. That is McCleary.

R. A. WAGSTAFF, '13, Assistant Coach.

"Wag" was a former M. S. M. backfield star, but becoming a professional, was not eligible for the team this last year. His work as Assistant Coach made up largely for his absence from the team. He proved an excellent running mate for "Mac" and much of the credit for the season is due to Wagstaff.

J. A. MURPHY, '13, Left Guard, Captain.

"Murph" is in football like he is in everything else. He plays the game for all he is worth and does it well. He led the team with good example of faithfulness and real playing. Murphy has played his last game for M. S. M. His fellows in athletics will miss him as one who was always the joy of the trips and one who always did his share and never shirked.

E. O. STOLIKER, '14, Right Halfback, Captain-Elect.

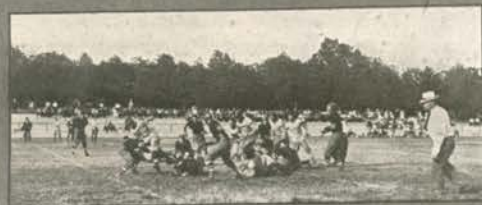
"Lucy" played an excellent game all the way thru and was one of the most reliable men on the team both defensively and on the offense. His consistent kicking pulled the Miners out of many a tight hole. As a ground gainer he was the ranking backfield man. In short, Stoliker is well worthy of the honor bestowed upon him.



"COACH"



"WAG"



"MURPHY" CAP.



"TERRY"



The Rollamo



D. E. ANDRUS, '13, Left Tackle.

Owing to a heavy schedule of school work, "Andy" could help only in the big games. In these, however, he played with all his old-time style and could always be depended upon to make a hole or a good gain. His long run in the Washington game will long be remembered. He left the game afterwards, but so did the man that tackled him. "Moose" has been the mainstay of the team during the years he played and has had the honor of being picked for the All-Missouri.

J. C. MILLER, JR., '14, Center.

"Eggie" was the life of the team. His cry of "Lots of Pep" kept things going and really put "Pep" into the bunch. Miller won fame and a warm place in the hearts of the team by falling on the ball at a critical moment in the Oklahoma game and scoring the winning touchdown.

W. L. AVES, '15, Fullback.

"Husky" enjoys the distinction of being the only hundred and twenty-five pound college fullback in the country. Not only does he enjoy the distinction, but he plays the game in a whirlwind style that few of any size can approach. He is the biggest little man we know of. As a gritty, heady player his equal has never reached Missouri. Great credit is due him and we greatly regret that he will not be with us again.

R. G. KNICKERBOCKER, '13, Left Tackle.

"Knick" was the backbone of the team. Often called upon and never found wanting. We have seen him, scarcely able to walk, helped from the field and fighting to go back. His selection on the Missouri Valley Team was a well-deserved honor and we are proud of him. He leaves a place that it will be hard indeed to fill.



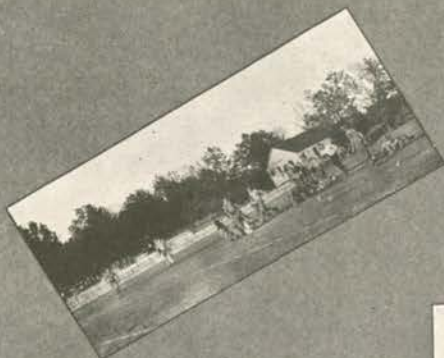
"Andy"



"Jule"



"Husky"



"KNICK"



The Rollamo



S. E. HOLLISTER, '13, Right Guard.

"Holly" played a hard, consistent game and clearly demonstrated his ability as a line man. He was always on the job and worked from the start of the game to the finish. He leaves a big hole.

R. L. MOUNTJOY, '16, Quarterback.

"Buck" was a heady general, a good ground gainer and a fierce tackler. Like all Freshmen who make good in the game, he was popular with the bleachers and fully merited their good opinion. With three more years to play, we predict great things of him.

L. LODWICK, '14, Right Tackle.

"Big Ole" played his usual charging game. He could often be found forcing his way easily thru the opposing line and tackling the offensive back before he could start. Lodwick is due to do great things in his last year of football at the school.

A. HEAVENER, '16, Left End.

"Alonzo" started with the backfield, but soon found his proper place upon the end. He has the proper stuff for a football star and another year under McCleary's coaching will bring out all he has in him and put him amongst the remembered football players.



"HOLLY"



"BUCK"



OLE



"ALONZO"



The Rollamo



L. MARQUISS, '16, End.

"Shorty," despite his size, played a fine game and was a credit to the team. We regret that he is not in school this season, but hope that he may be on hand for next year's football season.

C. H. O'NEIL, '16, End.

"Tip's" second year showing was good. He scarcely ever let a man get by him and was especially good in breaking up interference. A small man, but a man for all that.

L. J. BOUCHER, '14, Center.

"Butch" was an all-around man. Good in the backfield, line or on the end. His best work was at center and playing in that position he won his "M." One great thing about Boucher is his "boosting." Taking any position he was placed in and playing it for all he was worth, and keeping his team mates on their mettle.

E. A. MILLER, '16, Halfback.

"Kelly" lacked football experience, but one would never guess it after the first few days of practice. He steadily developed and three more years of the same coaching will make him win fame.



"SHORTY"



"TIP"



"BUTCH"



"KELLY"





The Rollamo



J. COLE, '16, Halfback.

"Joe" was one of the hardest working men of the team and is deserving of all the credit that can be given him. His fierce tackling in the Oklahoma game was a feature. His long gains helped win many games. We expect to see Cole playing the star game next year.

J. M. SCHUMAN, '16, Guard.

A native of Rolla is "Jahn." He came out soft and fat the beginning of the season. In three weeks he had trained down to a hard, fast line man and a fighter. Jahn had never played the game before, but this did not hinder him from becoming one of our best line men.

L. E. W. LEPPER, '16, End.

"Poicey" had hard luck at the beginning of the year which kept him from keeping up the good showing he made at the start. He stuck it out, however, and was awarded his "M." Next year we expect great things of him.



"JOE"



"JAHN"



"BOICEY"





Basket Ball 1912-13

WE had a good squad out for basket ball and did some hard practicing. Owing to difficulty in arranging a schedule and an attempt to adjust athletic finances no games were scheduled except one with Drury and one with Springfield Normal. In addition to Captain Lodwick and Castillon, Maher and Trent of last year's squad, Mountjoy, Miller and Kamp were out for the squad and showed good form that can be used to advantage next year. With the building of our new gymnasium we look forward to great basketball teams in the future. There is room for the introduction and popularizing of indoor sports at M. S. M.

Owing to the abbreviated schedule, no letters were awarded.

Track

OWING to the inability of the management to schedule any track meets for the team, track athletics were very quiet during the season of 1912. Many of our track men, despite the fact that there were to be no meets, trained religiously and kept in good condition, and this is especially noticeable now at the beginning of another season. In the past the School of Mines has turned out some wonderful track teams and always we have with us good track men. This year promises an interesting schedule of meets and it is to be hoped, with this start, that interest in track events will be restored to its former place.

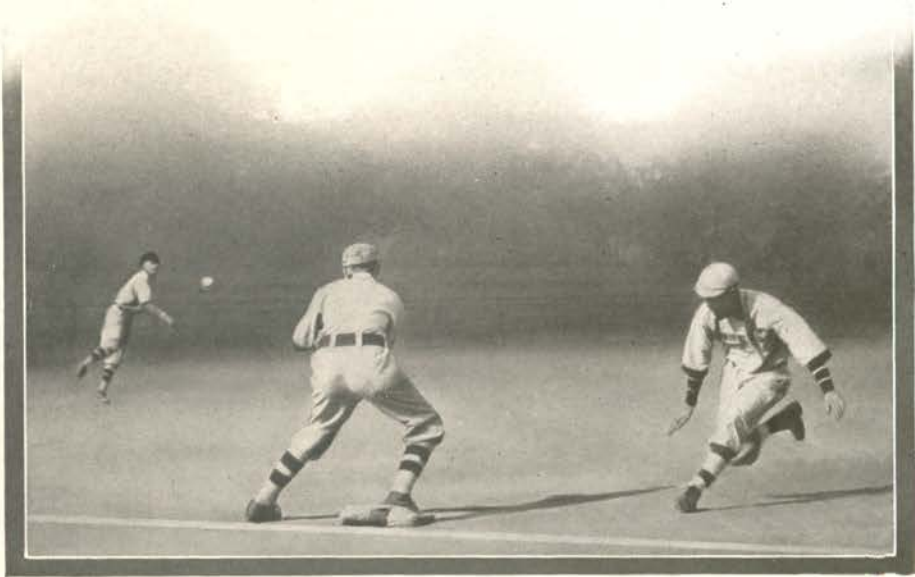


The Rollamo





The Rollamo



Base Ball

THERE can be no question but that the baseball season of 1912 was a successful one, a fitting example of the Miners' "fighting spirit."

The season was opened on Jackling Field, Wisconsin being the first to test our mettle. The "Badgers" came here with the scalps of some of the larger schools and it was with some hesitancy that we awaited the final score. This was "some" game from the Miners' standpoint. They went on the field with the big handicap of not having practiced together on the diamond. Coach Dennie never selected nine better Miners for "combat" in any athletic contest. It was remarkable the way the players behaved that day. They had all the "old-time pep and fight," which is always so noticeable about all of our teams. The Miners were right that day and after nine fast innings, they came out ahead with the score 2-1.

Our next game, three days later, was with the "Irish" from C. B. C. We lost 14-6. The game was a poor exhibition of baseball all around.

After two weeks of good, hard baseball practice, the team left for Springfield. The first game with the Springfield Normals resulted in a victory for the Miners. They had their eye on the ball and ran up a score of 10-4. Drury was our next opponent and took us into camp, 9-5. The next day the Miners came back and defeated the "Panthers," 7-5.

The Springfield Normals came to Rolla for a return game and we again carried off the large end of the score, 7-6.

On our next trip from Rolla, we lost to the "Irish" at St. Louis, 5-3. Our old rivals, the "Tigers," ran away with two games by overwhelming scores.

At Fayette, the team won its first game of the trip. It was a poor exhibition by





The Rollamo



Central College, and the Miners walked away victorious to the tune of 18-5. The last game on the trip was of the same variety, the Miners making 12 scores while Missouri Valley College made 3.

With the visits of Illinois College and also Drury to Rolla, we added four more scalps to our belt. From Illinois College, we won by the scores of 2-1 and 6-0. From Drury, we won by scores of 9-0 and 7-4.

As a whole, the baseball season was a very successful one; the Miners making just about as many, possibly a few more scores than were registered against them. Altho we lost to the "Irish" and to the "Tigers," our wounds were soothed by being victorious over Drury, Wisconsin and Illinois. The team displayed "pep" and gave us many good ball games to fight over again in the "fireside" league. What more could we ask?





The Rollamo



The Toastmaster



A. F. TRUEX

ON the evening of March 28, 1913, the Rollamo Board presented "The Toastmaster," a three-act college comedy, in Parker Hall. For the past four years the annual show had been an offering in minstrelsy, but, believing that a change would be welcomed, the play was presented and truthfully said that the change was wisely made. No Rolla audience was ever more manifestly delighted than the one which applauded enthusiastically and often the production of "The Toastmaster" from the beginning of the first to the end of the third act.

The beautiful new auditorium—the perfect stage settings and stage management—the unusual histrionic talent of the cast—the snappy scintillating lines of the play and the faultless direction and training of which the performance gave evidence, all combined to produce an effect that was satisfying to the last degree.

The roles were all assumed with the utmost appropriateness, and none of the incongruities so often apparent in amateur dramatic efforts could be discerned. As the cast was made up entirely of men, the female roles were perhaps the most difficult to assume. It was no small achievement to transform the sonorous baritone of a young and lusty male into the limpid silvery cadences that are supposed to emanate from the female larynx only, and if vocal transformations are difficult they are not to be compared to the herculean task of enclosing the unshapely male torso in a twenty-two inch La Resista, Gossard or American Lady. However, every difficulty was met to the great satisfaction and amusement of the audience and nothing was left to be desired. Each part was fraught with great possibilities and the actor in every case never failed to take advantage of them.

The scenic and lighting effects were efficiently handled by W. D. Beeghley and his staff of assistants. The properties were faultlessly taken care of by Jimmy Allen. To these men behind the scenes, whose existence was not known to the audience, is due an equal share of the credit. Their work was hard and they did it well.

The School of Mines Orchestra added greatly to the enjoyment of the evening by their music, which received generous and sincere applause.

All things combined to produce an effect the like of which had never before been seen in Rolla. The incomparably capable direction of Arthur Fuller Truex was the main factor in making the performance the dazzling triumph that it was. As Director, he patiently explained, instructed and illustrated until the production was elevated from the class of the crude amateur theatrical to the dramatic completeness of the high-class professional stage. There was in evidence throughout a delicate appropriateness of action, manner and vocal expression, a touch of personality, in short, an indefinable finesse which Truex alone among us could create.

It suffices to say that "The Toastmaster" was the most thoroly enjoyable entertainment ever produced by the students of the School of Mines.



The Rollamo



The Rollamo Board

Presents

The Toastmaster

Under the direction of ARTHUR FULLER TRUEX

CAST OF CHARACTERS

Bill Morgan, who loves and owes.....	C. J. Siegrist
"Towel" Fairfax, The Toastmaster.....	W. W. Pierce
Bob Kenmark, a friend of Bill's.....	J. J. Doyle
Henry Reed, son of Prof. Reed's.....	L. J. Boucher
Tom Ripley, a friend of Henry's.....	H. Vogel
George McIntosh, who loves and hopes.....	Y. Klepel
Professor Reed, who has something to say.....	H. H. Nowlan
Mrs. Reed, who has nothing to say.....	J. E. Leavitt
Cynthia, their daughter.....	J. L. Head
Buzzer, who has too much to say.....	T. R. Thomas

Sophomores, Freshmen, Profs., Etc.

HOUSE STAFF

A. W. Gleason, Manager,	W. D. Beeghley, Stage Manager.
A. F. Truex, Director.	James Allen, Properties.
R. R. Dickerson, House Manager.	C. R. Mise, Master of Wardrobe.
J. F. Seward, Ticket Agent.	John Hunter, Stage Carpenter.
E. C. Chamberlain, Musical Director.	Joe Fey, Electrician.
R. G. Knickerbocker, Head Usher.	

Special Music School of Mines Orchestra





The Rollamo



The Junior Trip





The Rollamo



Mine Surveying at Edwardsville

THE party that arrived in Edwardsville Saturday evening, June first, was a conglomerate affair of Seniors, Juniors, Sophomores and Faculty, but all worked harmoniously in grumbling about the "grub," lunches, balky lamps, low roof and all the enjoyable discomforts of the trip.

Sunday was spent in a trip thru Madison No. 4, our working place for the week, and in making a surface survey and plumbing the shaft. Of course, Prof. Forbes and Andrus wore all the skin from their foreheads bumping into the top, carbide lamps worked finely till we needed them, and we had a fine time. The Czar came to supper in his working clothes (his grip having been left in St. Louis) and won the displeasure of Castillon and Metz.

Early Monday morning, equipped with lunches, lamps, caps, transits, tapes, and all the other necessary paraphernalia, we took the car again for Glen Carbon. Parties were soon arranged and with an instructor in charge of each we started to work. Now Madison No. 4 is an especially nice mine, but to those of us with no experience, the first day was a great trial. It appeared that especial pains had been taken to leave as many projecting nobs on the roof as possible for us to bump our heads upon. Quite a few of us were convinced that carbide lamps are the pet invention of the devil and that the sole object of a sump was for us to fall into. This first day we worked hard and every day thereafter we worked harder.

On Wednesday it was double shift and it was then that Castillon's memorable outcry, "I am no expert!" was uttered. We sure were "no experts." All things must have an end and on Friday and Saturday we enjoyably ended our work by figuring latitudes and departures. It was so warm in the hotel that overcoats were unnecessary, and additional warmth was supplied by the fellows when they figured things over a dozen times or so.

After posing before Mr. Kahlbaum's camera for a few pictures, and having our first opportunity to look at Edwardsville, the second annual invasion of that M. S. M. stronghold, Madison No. 4, ended and the cry, "On to Flat River," was raised.



Flat River

After the clean-up in Mine Surveying, we hied ourselves back to St. Louis preparatory to leaving for the Southeast on Monday afternoon. In the city our members were sadly depleted by the desertion of several Juniors who preferred to wait for the Colorado trip in the following year, but Prof. "Cope," together with Cronk and Cody, who joined us as late recruits, and Mr. Kahlbaum, who continued with us as official photographer, swelled our squad again to a strength of ten.



The Rollamo



In due time, over the delightful Iron Mountain, we arrived in Flat River, where the Hotel Hammond received us with welcome, if not with open arms. Forty-five guests owned the hotel that night, and, as a consequence, we bunked where we could, with the assurance of better accommodations on the morrow. Sad to relate, that morrow never came. True, a tired Miner can sleep anywhere, but bath rooms and back porches should be proscribed. Ask "Cope," he knows.

Early Tuesday morning, that is, as early as our tired natures would allow, saw us out getting an interest in things under the direction of Prof. Cope and Forbes. That day took us through the Doe Run Mill and the Doe Run Power and Gas Producer plant, and left us a few incidental hours which we spent among the hills in search of diamond drills. Cope did show a humane interest here when he ferried Bob across one of the deepest streams.

Wednesday was spent in the No. 4 Mine of the Federal Lead Co., and in their mill. Despite the water in the mine, and the lack of lamps among the fellows, no one was lost, though grave fears were entertained for the Czar.

The Doe Run Mine occupied our attentions Thursday morning, and with it we concluded our underground work. Of the nature of the rocks, and their formations, Mr. Kaulbaum has the best knowledge of any in the squad, as he came into intimate contact with several of them when he retreated hastily from behind the diamond drill.

In the afternoon of that day, although we had only the combined efforts of Cope and Forbes to take the place of Cox, we left on a four-mile geology jaunt, via Missouri mules, to look over Mr. Davis' extensive property, and to search for his lost derby.

Next morning found us with the St. Louis Smelting and Refining Company, and when the dinner whistle blew, Cope decided we had had "enuf." Of course, the end was not unexpected, but, whisper it low, Tommy was in dire need of that St. Louis shave. Of course, Prof. did not think that we had really absorbed all the information that we could, or that we had actually evolved all the best schemes possible for the reform of the Lead Belt, but that we had a "sufficiency" for a Miner.

Were we glad the trip was over? Oh, no! For some of us it meant the end of college days. All too soon came Union Station, St. Louis, with its many diverging trails leading to many lands. Cheery good-byes were said, as the squad broke up, for though the lands be strange and the trails lonesome, they lead some day again to the portals of M. S. M.





SOME COMBINATION



FREE TOBACCO.



TWO CIGARS.



SENIORS



SHAVING



The
Rollamo of 1913.
Published Annually
by the Students of the
Missouri School of Mines
and
Metallurgy

Board of Officers.

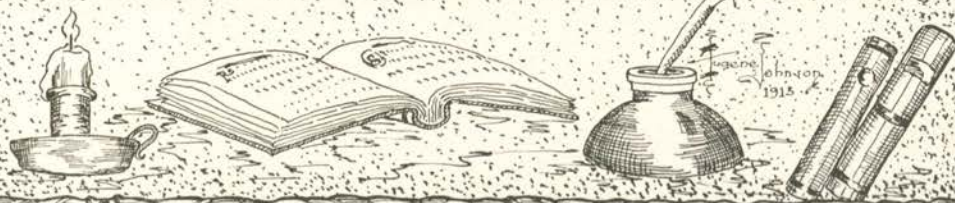
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Associate Editors.

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Asst. Mgr. Editor-in-Chief. Business Mgr.

J. H. Seward, J. C. Miller,
Associate Editors.

R. G. Sickly,
Secretary.





J. C. MILLER



J. N. WEBSTER



H. SHAW



R. G. KNICKERBOCKER



A. W. GLEASON



E. O. STOLIKER



J. F. SEWARD



R. G. SICKLY



The Rollamo



Editorial

MANY things have entered into the making of this, the seventh annual Rollamo. Handicapped, as all Rollamo Boards have been, by lack of definite knowledge as to what is necessary to produce the best results in the compilation of reading matter and engravings, with insufficient experience in the printing business and no natural ability to make money, we offer this work, only hoping that you will derive from it a part of the pleasure we have had in its doing.

It makes its appearance late, as usual, notwithstanding our resolution when we first took hold that the 1913 Rollamo would be the one Rollamo that would appear on time. This tardiness is due to many things, but for the help of the Board for next year we want to call attention to the most important reason, namely, lack of pictures suitable for reproduction. We ask every man who returns to M. S. M. next year, and every man who has ever attended M. S. M. to keep all pictures they may happen to get hold of and give them to the Board early next year. Engravings made in good time are essential to promptness of publication and aid greatly financially.

The Rollamo Board of 1914 has been already chosen. We desire to publicly warn them that the book is not intended to be a one-man or a nine-man book. Every man in school should be on the lookout for suitable material and ideas for the betterment of the book. This material should be given to the Rollamo Board and they should then put it in shape for publication. Then the book would indeed be the Year Book of the Missouri School of Mines, published annually by the Students. Let us have the co-operation of every man in school.

An effort was made to secure Alumni pictures this year. The request was made too late and we were not able to make this the Alumni number as we had planned. If every Alumnus who reads this will start now and save pictures and write-ups of his work and will send them in to the school to be given to the Board, a department of great interest will be added to the 1914 book.

We have had many letters from the Alumni in regard to happenings and accomplishments at the school this year. All that our time permitted we answered, but some, thru necessity, have remained unanswered and to these men and all the Alumni and former students we wish to express our appreciation for their interest and assure them that we are always glad to hear from them and to furnish them with information or anything else in our power.

Acknowledgment for help in the making of this book is due to many of the students and members of the Faculty and to the townspeople. Especially are we indebted to Mr. Arthur F. Truex for his able work with our dramatic efforts; Mr. L. S. Copelin and C. G. Chamberlain for their help with our music; Mr. C. D. Young, Joe Finigan and Mr. T. Castillon, for their good work in getting pictures for us, and to Mr. R. R. Dickerson, for his invaluable aid in everything we have undertaken.



The Rollamo



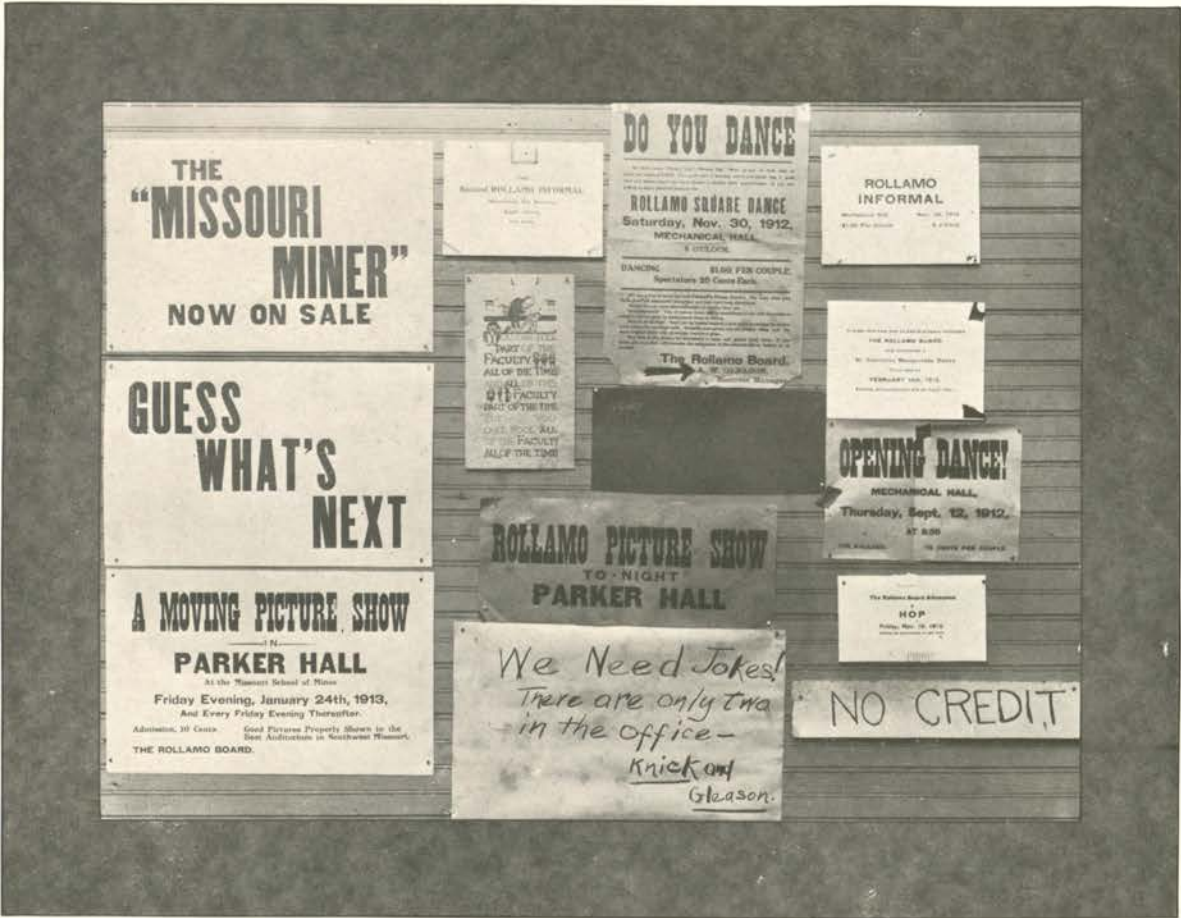
We offer no apologies for this volume. We have done the best we could under the existing circumstances to make the book complete and representative.

The Rollamo is largely supported by funds from various enterprises promoted by the Rollamo Board. Every man in school should make it a point to boost these activities. It has been the Rollamo policy to give good value in return for the money charged for plays and other things with which they have been connected, and every man should do his share by patronizing them.

We regret the loss of Mr. J. Stroup as Assistant Manager of the 1913 Rollamo. He left early in the first semester to engage in mining work in the West. While with us Stroup worked hard and his loss has been greatly felt.

To "Jimmy" Allen, our "office boy," is due much credit for good and faithful work in helping to make this Rollamo. Always ready and willing, no matter how unpleasant or difficult the task, he has aided in every part of the work. For his efficient assistance the Rollamo Board desires to express their appreciation.





THE
"MISSOURI
MINER"
NOW ON SALE

GUESS
WHAT'S
NEXT

A MOVING PICTURE SHOW
PARKER HALL
At the Missouri School of Mines
Friday Evening, January 24th, 1913.
And Every Friday Evening Thereafter.
Admission, 30 Cents. Good Pictures Properly Shown in the
Best Auditorium in Southwest Missouri.
THE ROLLAMO BOARD.

Rollamo Informal

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ALL OF THE TIME
ALL OF THE TIME
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ALL OF THE TIME
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ALL OF THE TIME
ALL OF THE TIME
ALL OF THE TIME
ALL OF THE TIME

DO YOU DANCE

ROLLAMO SQUARE DANCE
Saturday, Nov. 30, 1912.
MECHANICAL HALL
8 O'CLOCK

DANCING \$1.00 PER COUPLE
Spectators 25 Cents Each.

The Rollamo Board.

ROLLAMO
INFORMAL

THE ROLLAMO BOARD
ALL OF THE TIME
ALL OF THE TIME
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ALL OF THE TIME
ALL OF THE TIME
ALL OF THE TIME
ALL OF THE TIME
ALL OF THE TIME

OPENING DANCE!

MECHANICAL HALL,
Thursday, Sept. 12, 1912.
AT 8:00
10 DANCE PER COUPLE

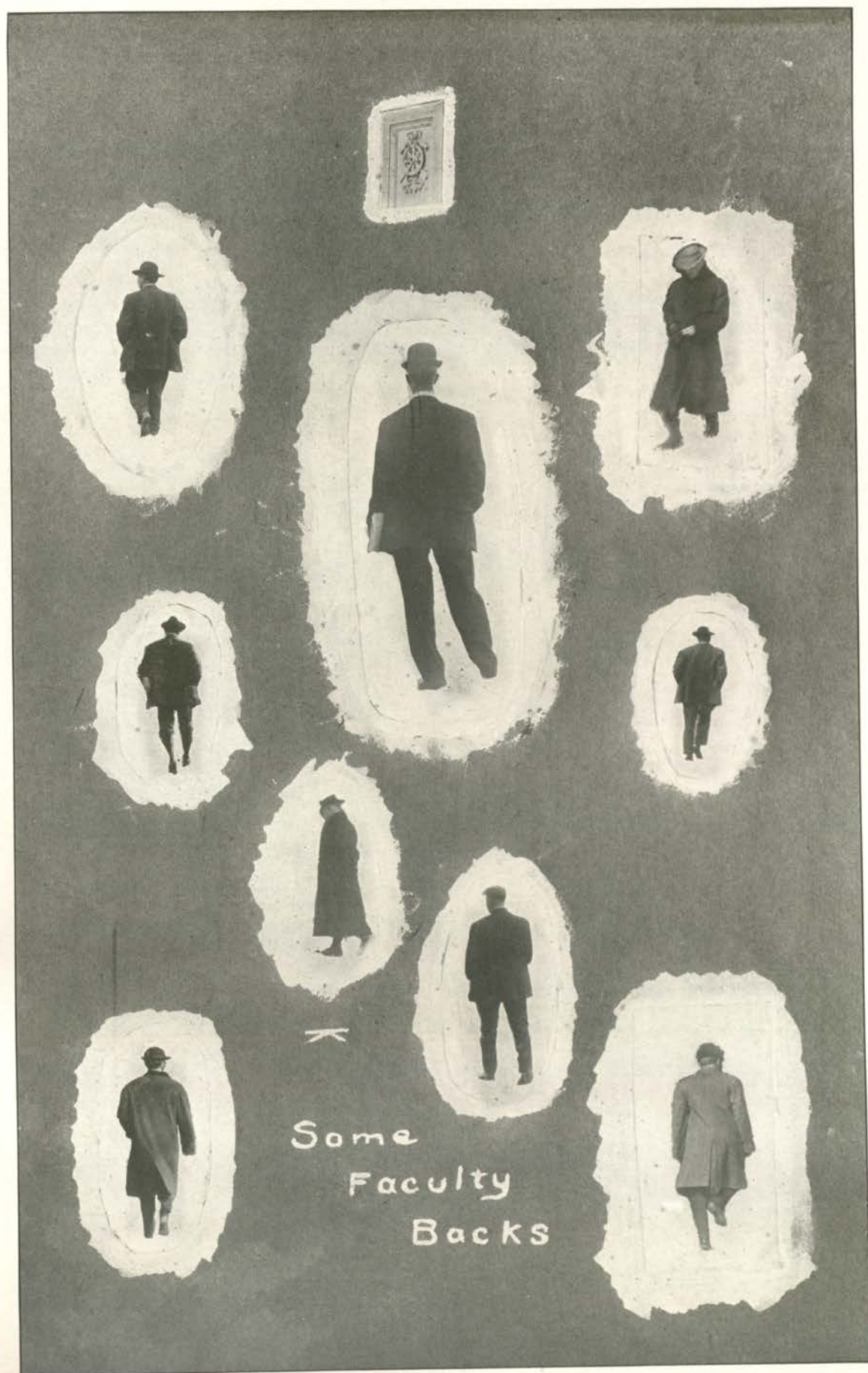
The Rollamo Board

HOP

Friday, Nov. 15, 1912
8 O'CLOCK

We Need Jokes!
There are only two
in the office -
Knick and
Gleason.

NO CREDIT



Some
Faculty
Backs

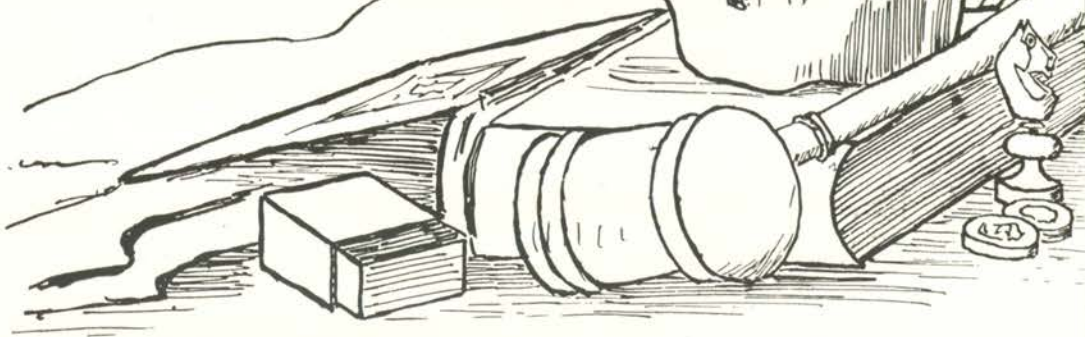


CAMPUS IN WINTER.





FRATS





The Rollamo



Kappa Sigma

FRATRES IN URBE

Victor Harmon Hughes

John Charles Clark

FRATRES IN UNIVERSITATE

1913

Frank Wesley Cody

John Nixon Webster

William Ehlers, Jr.

John Wikoff Greene

1914

Riley Marsh Simrall

Thomas Rae Thomas

Thomas Estus Crutcher

1916

Greyton Civile Corey

Eugene Sheridan Perry

John Francis O'Brien

Charles Rhoderick Mize

Clifford Joseph Siegrist

Edmund Hugh Woolrych

Eugene Wallace Campbell

Riley D. Wilkerson

Robert Craig



12-13

BETA CHI
OF

KAPPA SIGMA



The Rollamo



Sigma Nu Fraternity

FRATER IN FACULTATE

Joseph Wayne Bartley

FRATRES IN UNIVERSITATE

1913

H. H. Nowlan

J. F. Seward

H. I. Brooks

H. T. Marshall

H. M. Katz

1914

J. C. Finagin

C. W. Hall

L. J. Boucher

W. C. Hogoboom

E. J. Kayser

R. R. Walton

1915

K. D. Schwegler

L. H. Canoll

Chas. O'Neill

R. W. Hayden

J. E. Leavitt

1916

J. L. Head

C. C. Patton

J. W. Brown

L. R. Mountjoy

C. L. Remy

R. D. Wornall

F. D. James

SIGMA



NU



The Rollamo



Kappa Alpha

Beta Alpha Chapter

Established April 27, 1903.

FRATER IN URBE

Charles L. Woods

FRATER IN FACULTATE

Alexis Xavier Ilinski

FRATRES IN UNIVERSITATE

SENIORS

Charles Yancey Clayton

Leonard Stephen Copelin

John Andrew Murphy

Richard Alexander Wagstaff

JUNIORS

Gerard Hoopes Cowman

William Wallace Pierce

Julius Caesar Miller, Jr.

SOPHOMORE

Frank Lindley Johnson

FRESHMEN

Guy Carleton Chamberlain

Earl George Deutman

William Henry McCartney

Edwin See Tompkins

James Deyell Turner

FRATRES IN ABSENTIA

Carl Sigmund Elayer

Paul Emmet Gildehaus

K

A



'12

'13



The Rollamo



Pi Kappa Alpha

Alpha Kappa Chapter

FRATER IN FACULTATE

Horace Thorp Mann

FRATRES IN UNIVERSITATE

SENIORS

Donald Hewson Radcliffe

Ray Gould Knickerbocker

William Ralph Knappenberger

JUNIORS

Howard Gove Halsey

Frederick Gallaway Moses

Clinton DeWitt Smith

Ralph Edward Wilkins

Enoch Ray Needles

SOPHOMORES

John Warder Shotwell

Homer Marvin Wilson

Roy Watson Griffin

Albert Leo Trent

FRESHMEN

Robert McClair Miller

Rowe Alexander Garesche

Baarent Ten Broek, Jr.





The Rollamo



Tau Beta Pi

Beta of Missouri

FRATRES IN UNIVERSITATE

R. M. Simrall

J. C. Ingram

R. G. Sickly

James Hopkins

M. J. Kelly

H. H. Nowlan

C. Y. Clayton

E. R. Needles

FRATRES IN FACULTATE

C. R. Forbes

V. H. Gottschalk

A. X. Illinski

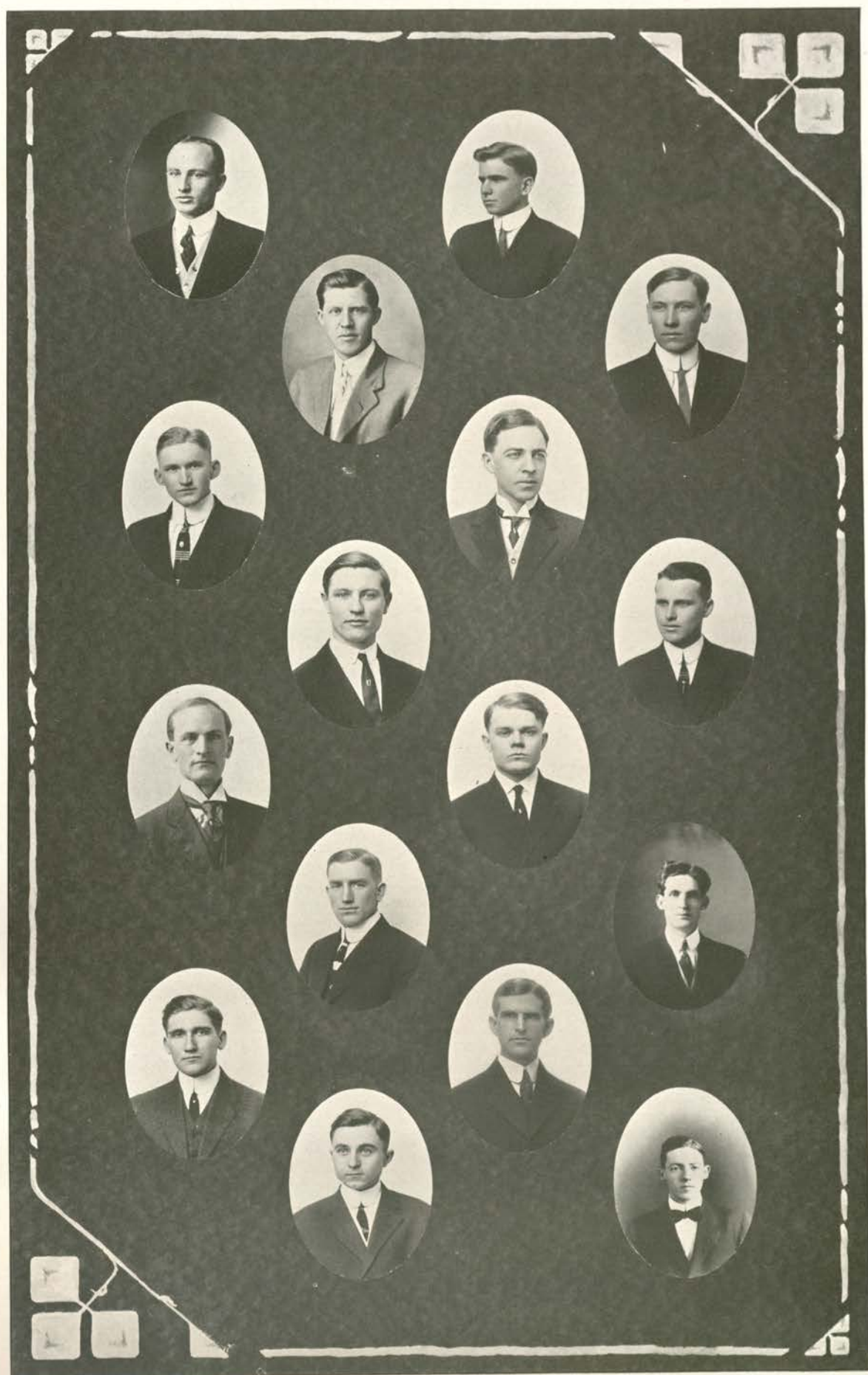
H. T. Mann

FRATRES IN URBE

V. H. Hughes

J. S. Irwin

M. M. Albertson





The Rollamo



Stray Greeks

In the Faculty :

Dr. A. L. McRae, Chi Phi

Durward Copeland, Sigma Rho

G. H. Cox, Alpha Chi Sigma

C. R. Forbes, Sigma Rho

J. W. Eggleston, Psi Upsilon

E. H. McCleary, Beta Theta Pi

J. Cunningham, Delta Tau Delta

J. W. Barley, Sigma Nu

In the School of Mines :

D. E. Andrus, Phi Kappa Sigma.....	Wisconsin University
W. S. Aves, Delta Kappa Epsilon.....	Kenyon College
J. C. Ingram, Theta Xi.....	Washington University
A. W. Gleason, Phi Kappa Psi.....	Bucknell University
A. F. Truex, Delta Upsilon.....	Rochester University
A. W. Vogeles, Sigma Phi Epsilon.....	Baker University
W. Lee, Sigma Alpha Epsilon.....	Colorado School of Mines
J. J. Doyle, Sigma Chi.....	Washington University
G. F. Metz, Theta Xi.....	Washington University
L. E. Lepper, Beta Theta Pi.....	Colgate College
D. D. Finley, Sigma Delta Phi.....	Kansas University

THE ARGONAUTS



A. F. TRUEX.
ΔT
ROCHESTER

A. W. GLEASON.
ΦKΨ
BUCKNELL

L. E. LEPPER
BΘΠ
COLGATE

D. D. FINLEY.
ΣΔΦ
KANSAS

W. C. AUES.
ΔKE
KENYON

D. E. ANDRUS
ΦKΣ
WISCONSIN



A. W. VOGELE.
ΣΦE
BAKER

G. F. METZ
ΘΞ
WASHINGTON

W. LEE
ΣAE
COLORADO

E. H. McCLEARY.
BΘΠ
PENN STATE

J. J. DOYLE.
ΣX
WASHINGTON

J. C. INGRAM
ΘΞ
WASHINGTON



Forger
John
1915



The Rollamo



Quo Vadis

"Andy" Andrus

"Husky" Aves

"Boots" Clayton

"Swift" Collins

"Cope" Copelin

"Hoppy" Hopkins

"Knick" Knickerbocker

"Murph" Murphy

"Enoch" Needles

"TBP" Sickly

"Torchy" Stoliker

"Jake" Stroup

"True" Truex

"Johnny" Webster



QUO VADIS



Pipe and Bowl

OBJECTS

"To promote good fellowship
among the students of M.S.M.
and
to further the interests
of the school"

John C. Ingram
Gilbert F. Metz
J. Frederick Seward
Tirso Caslillon
Harry H. Nowlan
Ray G. Knickerbocker
Charles Y. Clayton
John N. Webster





The Rollamo



Grubstakers

James Hopkins

S. R. Hatch

E. A. Schroer

K. I. Gannon

E. A. Miller

A. W. Heavner

H. W. Shaw

W. H. Wagner

E. H. Ruebel

W. M. Benham

H. O. Mann

F. R. Heman

R. G. Sickly

M. J. Kelly

W. Gammeter

L. W. McKinley

Y. Klepel

E. L. Beyer

E. O. Stoliker

F. H. Hanni

T. P. McCague

R. D. Cameron

L. N. Hoppock

E. B. Weiberg





The Rollamo



R-Way Club

Otto R. Mit

Edward W. Arpe

James J. Allen

G. Edgar Ude

Harold A. Neustaedter

James J. Dowd

J. J. Krebs

R. E. Muench

E. D. Martin

Charles Gold

B. W. Adams

G. E. Johnson

John S. Hoffmann

H. A. Paar

G. A. Hellstrand

T. C. Wilson

Arturo C. Fernandez

H. Marsh

S. E. Hollister

J. W. Eggleston

Philip A. Moore

Jesse Cunningham

D. D. Finley

J. S. Irwin

C. W. Bower

F. D. James



The Missouri Mining Association

L. S. Copelin, President

E. R. Needles, Vice-President

L. J. Boucher, Secretary

A. F. Truex, Treasurer

THE Missouri Mining Association has enjoyed a very enthusiastic membership. Thru the efforts of L. S. Copelin many men, prominent in the various mining districts of the country, have addressed the organization as to practices in the different camps, mine equipment and management. A number of the students have given talks on work with which they have been connected. No definite schedule of subjects was arranged, tho all the addresses were upon the subject of Mining and its branches. Plans are now being made to arrange addresses before the society at each of its regular meetings. The Mining Association will be pleased to receive papers on practical subjects, to be read at its meetings, from any graduate or friends of the school engaged in mining.



The Rollamo



Cabinet of the Young Men's Christian Association

1912-13

M. J. Kelly, President

C. Y. Clayton, Vice-President

J. C. Stroup, Student Secretary

S. C. Hollister, Treasurer

J. S. Irwin, Graduate Secretary

THE Young Men's Christian Association has enjoyed an exceedingly prosperous and helpful year. The membership has been large and great interest has been taken in the work.

For the enlargement of their scope of work, Mr. J. S. Irwin, '12, was appointed Graduate Secretary and took charge in January.

As in former years, a lecture course was arranged by the Association. It was a splendid success and many enjoyable numbers were given in the course.

The headquarters of the Y. M. C. A. have been moved from the Mining Building to the rooms formerly occupied by the Directors' office in Norwood Hall. These rooms are fitted up with chairs and couches to be used as rest rooms by the student body.



School of Mines Orchestra

DIRECTOR

C. G. Chamberlain

MEMBERS

C. G. Chamberlain	Piano
L. S. Copelin.....	Violin
J. J. Dowd.....	Violin
A. C. Gale.....	Cornet
E. A. Jones.....	Cornet
Harry Heimberger	Bass Viol
V. H. Gottschalk.....	Flute
O. R. Mit.....	Clarinet
R. W. Hayden.....	Euphonium
X. Smith.....	Trombone
T. R. Thomas.....	Drums
T. Estus Crutcher.....	Drums





The Rollamo



Student Council

1912-1913.

FACULTY MEMBERS

Durward Copeland, President

A. L. McRae

G. H. Cox

C. R. Forbes

E. H. McCleary

REPRESENTATIVES FROM THE CLASSES

SENIORS

J. C. Ingram, Secretary

R. G. Knickerbocker

J. W. Greene

J. Hopkins

JUNIORS

L. L. Lodwick

E. R. Needles

S. R. Hatch

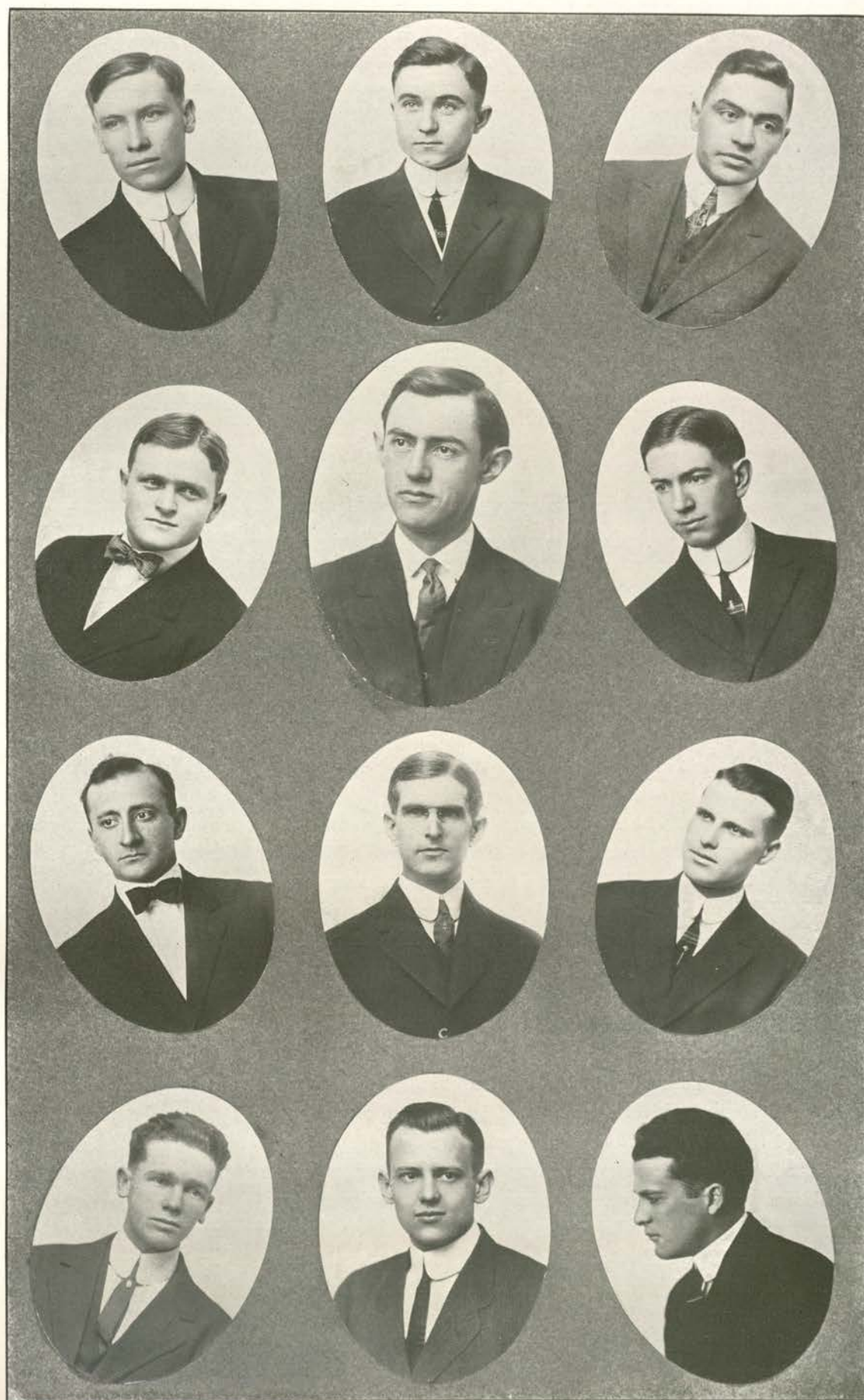
SOPHOMORES

K. G. Schwegler

J. R. Maher

FRESHMEN

R. L. Mountjoy





The Rollamo



St. Patrick's Day 1913

WHEN St. Patrick arrived in Rolla in the glorious year of 1913, he chose a hand car propelled by brawny Micks as his private car over the Frisco Lines. Never has a Saint Patrick been greeted with such wild enthusiasm or as large a party of loyal followers as were gathered at the Frisco depot, which as in former years, was designated by the well-sounding name of Grand Central Station.

The gorgeous pageant assembled in his honor formed in line and paraded thru the principal streets. There were elaborate floats heading each of the four classes, the Seniors were resplendent in green caps and gowns, the chariot of the worthy Saint was drawn by prancing steeds and attended by liveried footmen; the committee rode in the town's automobiles; a prospector and his wife rode a single mule, the rest of which was covered by a complete outfit, and they were followed by a degenerate hound; an Irish snake fully one hundred feet long; Beautiful Sentences symbolized; a chef cooking flapjacks; every costume known to the spirit of carnival was there. Arriving in front of Norwood Hall, the Blarney Stone was brought in by a prospector and the degree of "Knight of St. Patrick" was conferred upon the members of the Senior class, with a joke and a roast for everyone and especially for those members of the faculty who were honored with the degree. An address that was the glory of the day concluded St. Patrick's work of the morning.

While this part of the day's enjoyment was along the traditional lines of the past, it far surpassed anything ever attempted before. There was not one feature in the program that was not enlarged and improved upon. It abounded in new and original ideas that were carefully and elaborately carried out to the smallest detail. A standard was set that will make work for the next committee to approach and it is doubtful whether it will ever be excelled in any of the coming years. Our space does not permit of an account that will do it full justice. We regret that we cannot reproduce a full and wonderful description that will present to those so unfortunate as not to be there, a clear picture of the day.

The afternoon was worthy of a place in the same day with the display of the morning. The new meeting ground west of Parker Hall was dotted with tents and all the walks were spanned with beautiful arches. It was a wondrous carnival. Barkers, true to life and with clever patter, lacked but one phrase of being the real thing. "Only a nickel, half a dime"—was missing, for everything was free. The fat lady, the bearded lady, the swimming match, the fortune teller, the show for men only, all were free. It is not necessary to say that the place was crowded. A boisterous, good-natured crowd, flinging handfuls of free confetti and slapping each other with free "wife beaters," were freely handled by four cops, real Irishmen and the pride of the force. The mill of justice was established upon the grounds and the big-wigged judge was called upon to try and punish offenders thruout the afternoon.

The finale of the afternoon was a moving picture show in Parker Hall. Of course, it was also free. The work of the architect and builder was well tried. Every inch





The Rollamo



of floor space was covered by a human foot, and there was a line upon the outside clamoring for admittance. The show was made up of Irish subjects and was thoroughly enjoyed. It was with deep regret as the last reel finished and the crowd dispersed for supper.

The evening started with another moving picture show made up of an entirely new set of films and a crowd larger, if possible, than the one of the afternoon. In addition to the moving pictures, slides were shown picturing the various happenings of the morning and afternoon. The last big event of the day started at nine o'clock in Mechanical Hall—a masquerade dance, with over a hundred maskers in the grand march, which was led and reviewed by St. Patrick. The costumes were more fantastic, if such a thing were possible, than those of the morning. The Rolla girls entered heartily into the spirit and graced the ball with beautiful and baffling garments. Many people from the neighboring villages were present to add to the enjoyment. Refreshments were provided and many present had the pleasure, for the first time, of putting a foot on the rail and calling for such fancy drinks as a "Mechanic's Swizzle," "Doc Louey's Best," and "Bronze and Cast Iron" cocktails. What matter if all orders were filled in lemonade and cider, the devilishness of it made up for lack of strength.

And how they danced to the alluring music! A Spanish maid and a fuzzy bear, Pierrot and Harlequin all were there, and disported themselves with such grace that the great regret is that all dances cannot be like unto this one. The revels came to a close at midnight with everybody happy and calling for more.

Thus closed the greatest St. Patrick's Day celebration ever held at the School of Mines. From the early days of the starting of the festival in the school, the development of the day's program has steadily advanced and instead of a short ceremony on the campus, merely furnishing an excuse for the taking of a holiday, it has developed into a day of carnival and pleasure and its fame is world-wide.

Tho there has been adverse comment on the celebration as being irreverent to the memory of the good saint, all who have witnessed the ceremonies are unanimous in the opinion that there is absolutely nothing objectionable in any part of the fete, and that everything that Saint Patrick appears in is conducted with the greatest dignity and reverence.

Arthur F. Truex, a new recruit in the Junior class, took the role of St. Patrick, and was unsurpassable in the part. With a real brogue and a ready tongue, his wit was clean, pat and enjoyable. His address was a happy combination of good advice and side-splitting humor.

The arrangement of the day was in charge of the following committee of members of the Junior class: Lodwick, Metz, Collins, Thomas, Truex, Needles, Cushwa, Cowman, Stoliker, Boucher and Simrall, chairman. The committee worked hard, they had good financial support from the students and townspeople, and every man in school helped prepare floats and costumes. It was worth while and well worthy of the year in which it took place. The greatest St. Patrick's Day celebration in history rightly belongs in the greatest year of the School of Mines.





Successful College Life

THE first requisite of success for the boy attending college is that he should be a student. He is there to learn. His work is laid out along two lines, one giving him information to be retained and the other fitting him to ferret out information for himself. The first he is bound to have, as examination will reveal whether he has retained what has been taught him. The other is not such a tangible quality. It is difficult to come to a knowledge of by quizzing. Rather unfortunately perhaps, it is more often the deciding factor of future success. Faculties can but insist upon the learning of definite information and then endeavor to drill in the ability to assimilate and create along with it. This is the reason that many men, tho ranking high in terms of school grades, do not always succeed in practice.

But the man in school, in addition to his technical studies, owes it to himself to learn other things. He must learn men. Evenings spent alone with books may mean good grades, but that is not education. One of the chief advantages of the college is the opportunity to mingle with and to know those who will be the men of his time. A knowledge of the strong characters of the ages is valuable to the historian and for the hours of relaxation, but the man in business must know the men with whom he deals.

And the men who are in school with him today are the men who will be with him professionally tomorrow. Therefore every man in school owes it to himself to meet and know every man on the campus he possibly can. And there are few among those he meets, in college life, that are not worth knowing. In fact, every man you meet in any place has some good in him if you but look for it. It is unfortunate that many of us do not always look for the good.

The man who does not enter into school activities is robbing himself, is robbing his associates and is robbing the school. He robs himself of the good he could learn from others, he robs others of his good influence and he robs the school by defeating its purpose as an institution of learning.

Many look upon athletic teams, dramatics and school festivals as side issues and not worthy of a place with the more serious business of study. But they are vital and as helpful in their place as any mathematical formulæ or technical investigation. They teach organization, give self-reliance, assurance and enable a man to take his place in that part of his profession that is almost as essential as scholastic knowledge.

Of course, some tend to the extreme in these things just as others tend to the studious extreme, but the liability of this is slight under proper instruction. The demands of the classroom are imperative and there is little risk of their being slighted.

The man who completes his college course with fair grades and a list of positions in the various activities to his credit has a lot on the one who has an "E" average as a student, but nothing to show as a man. His chances of future success are fully as bright and he can look back upon the pleasures of his college days and not recall a weary, worthless grind.



The Rollamo



ROLLA FROM FT. WYMAN



O'LEARY TEAM



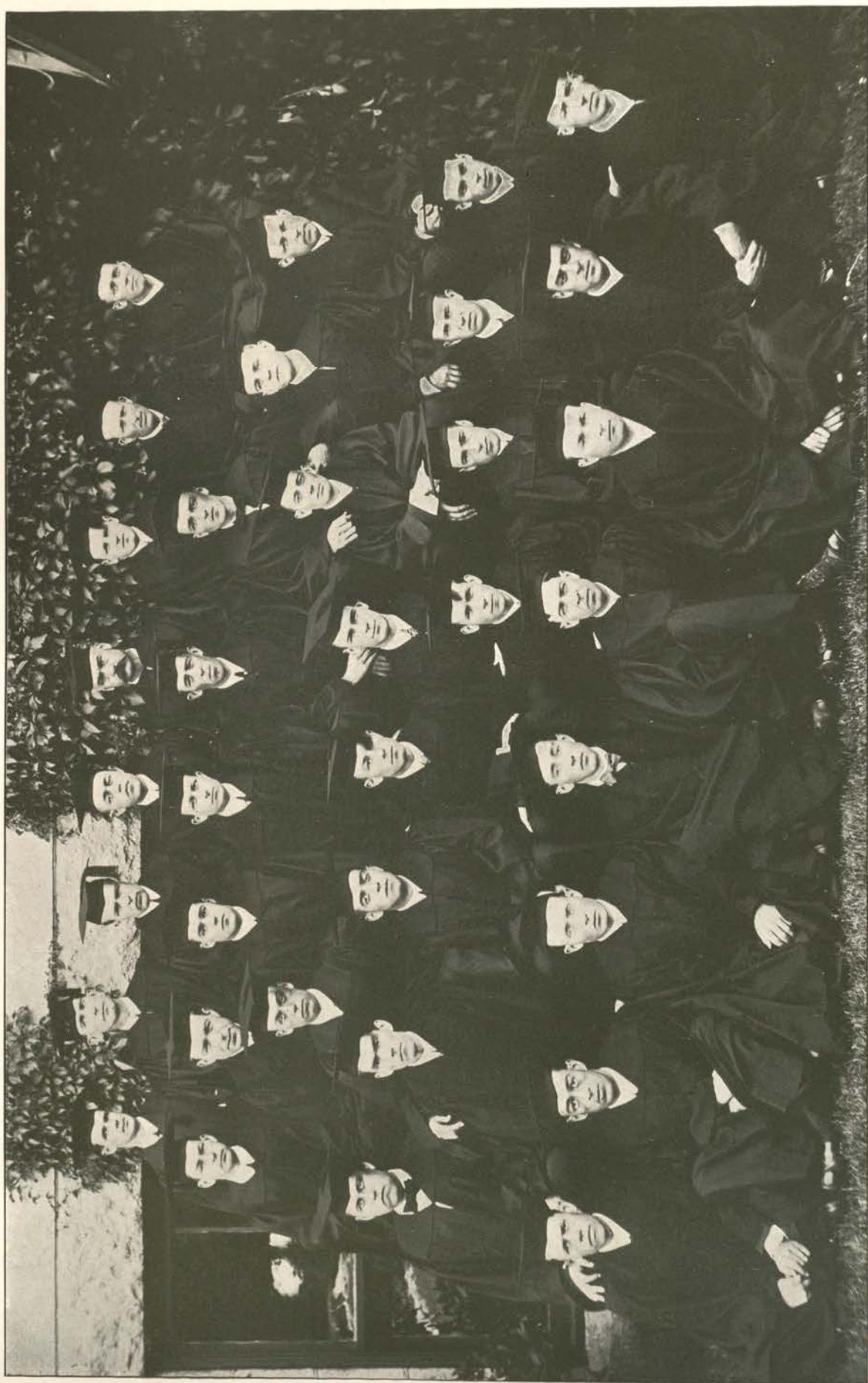
BALD KNOB



THE BRIDGE



FT. WYMAN





The Rollamo



Senior Class of 1912

THE passing of the Class of 1912 is already far behind us in the wake: college days have become a memory. Though there is not one of us but longs deeply in his heart for the dear associations and pleasures of those four years, yet he renounces them regretfully, but cheerfully, for the responsibilities which none of us can or would escape.

Men of 1912, let us all strive to the limit of our powers to repay the debt we owe to society for those years which gave us so much and exacted nothing from us; and as we strive may pleasant recollections of dear comrades who worked with us and played with us, and memories of joyous college days—our golden days—come vividly back to us and tug eternally at our heartstrings.

J. S. IRWIN, '12.

GRADUATES OF 1912.

BACHELOR OF SCIENCE IN MINE ENGINEERING

Henry Farnum Adams	James Lawton Keelyn
Eugene Harding Broughton	John Richardson Kenney
Cairy C. Conover	Duane Montgomery Kline
Clifford Leroy Conway	Edward Dale Lynton
Arthur Harrison Cronk	Roswell Hare Maveety
Robert Emmett Dye	Robert Justice Paulette
William Henry Elbelt	William Porri
Frank James Flynn	Mark Sheffer
Harry Percy Ford	Homer Kent Sherry
Dale Irwin Hayes	Thomas Andrew Stroup
Joseph Stuart Irwin	Miller Edward Willmott
Clark Watson Wright	

BACHELOR OF SCIENCE IN METALLURGY

George Condon	Norman Lloyd Ohnsorg
George Sylvester Thomas	

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

John Hurtgen	Arch Waugh Naylor
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BACHELOR OF SCIENCE IN GENERAL SCIENCE

Oscar Nicholas Bribach	Alexander Grosberg
Scott David Callaway	Dwight Deane Harris
James Howard Chase	Julian Adolph Hielscher
Paul Ephraim Coaske	Robert Winters Johnson
Louie Lincoln Coover	Edwin Robinson Morris
Martin Harmon Thornberry	







The Rollamo



The Junior Banquet

HOTEL, BALTIMORE

January 24, 1913

Toastmaster,
Arthur Fuller Truex

Class President,
Riley Marsh Simrall

ON the evening of Friday, the 24th day of January, the Junior class of M. S. M. gave a most enjoyable banquet at the Hotel Baltimore. The occasion was the completing of the first term's work. The banquet was attended by every member of the Junior class, except M. J. Kelly, who was called out of town on that night.

The toastmaster for the evening was A. F. Truex, who as master of ceremonies, told some very funny stories, and called on some of the different gentlemen present to respond to toasts along the different lines of Junior activities.

M. R. Simrall, the president, gave a short talk, telling a few incidents in the history of the Junior class, and about their past accomplishments and present hopes. Mr. Simrall's talk was short, to the point, and was much appreciated by all present.

E. R. Needles answered to a toast on St. Pat's day, and told some of the plans of the committee. He promised that the celebration of this important event this year should be one of the best and most successful in the history of the school.

"Eggie" Miller was called on, and he told of the plans of some of the future Junior students. Mr. Miller also told some of his justly noted stories. He also proposed a toast to Coach McCleary, which was responded to in a most enthusiastic manner.

One of the best speeches of the evening was given in answer to a toast to the football captain by E. O. Stolliker. He told of this year's team, as well as the prospects for one of the most successful teams in the State next year.

Besides these speakers, T. R. (Shorty) Thomas responded to a toast on the "German Band," Gerald Cowman to one on "The Committee," and H. G. Halsey to one on "Class Athletics."

During the evening the class sang several vocal selections, led by Mr. Truex and Mr. Thomas. The songs were the old favorites, and the feeling put into them by the class made them very much enjoyed by those who were fortunate enough to hear them rendered.

The most noticeable thing about the whole evening was the excellent spirit, both school and class, shown by the members of the Class of 1914. Every man showed that he had the welfare of his class and school at heart, and that he was willing to do most anything to make old M. S. M. a better school, and to raise her standard to a height that it has never before attained.



The Rollamo



The Freshman Banquet

HOTEL BALTIMORE

March 1, 1913

Class President,
E. H. Woolrych

Toastmaster
C. R. Mize

Chairman Banquet Committee
W. D. Beeghley

W. R. PAINTER, M. S. M. '82, was the guest of honor and the principal speaker at the banquet of the Freshman class held at the Hotel Baltimore on Saturday evening. Though busy with the cares of his office and about to take upon himself the work of the Governor during Governor Major's absence at the inauguration, Mr. Painter showed the great interest he has always taken in the School of Mines since his graduation, by promptly accepting the invitation of Mr. Beeghley, chairman of the banquet committee, to be present, at the first banquet of the Class of 1916.

The banquet was well worthy of this great year of accomplishment at M. S. M. The banquet hall was beautifully decorated with pennants and colors of the class. With one or two exceptions the entire Freshman class was present.

C. R. Mize, the toastmaster, furnished much enjoyment with his clever introductions and first called upon Governor Painter.

The Honorable "Bill," as he is known to the students, recalled his school days in Rolla, prophesied a great future for the school and awakened in every man present a new pride and affection for M. S. M.

Coach McCleary followed Governor Painter, and while not an orator, talked as man to man and stirred them to greater efforts in athletics and every phase of student life.

Various members of the class gave short talks and showed the class to be heart and soul for a bigger, better and greater M. S. M. The enterprise of the class in giving a banquet that has never been equaled by any former class and the spirit shown makes the outlook for the future bright and promising.

The banquet was in charge of the following committee: Wood Beeghley, chairman; J. W. Brown, W. H. Kamp, E. A. Miller, J. M. Schuman, J. D. Turner.

Talks were made by Hon. W. R. Painter, E. H. McCleary, E. H. Woolrych, W. D. Beeghley, J. L. Head, E. A. Miller, R. L. Mountjoy, F. W. McKinley, C. C. Pattson, J. M. Schuman and E. S. Tompkins.



Parker Hall

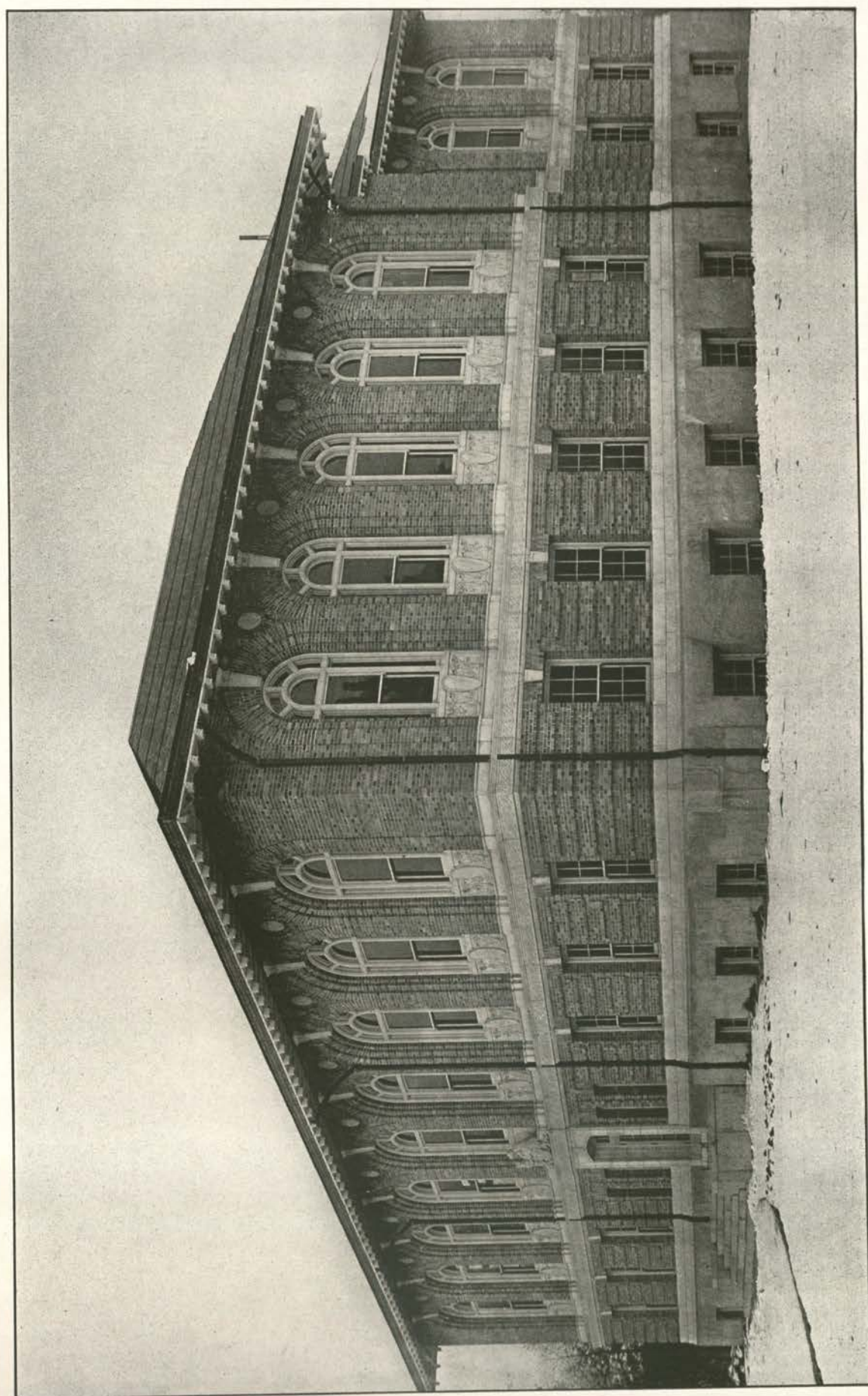
THE latest addition to the buildings of the School of Mines is Parker Hall which stands immediately north of Norwood. This beautiful structure is built of hydraulic pressed brick, trimmed with white stone. It has a west frontage of 102 feet and a total depth of 114 feet. It is heated with steam from the central heating plant and is absolutely fireproof.

Besides the offices of Administration and the headquarters of the Y. M. C. A., the main floor contains the Auditorium, a beautifully finished hall, with a seating capacity of six hundred and fifty people. The well-equipped stage is 39 feet wide, 18 feet deep, a width of 28 feet between the proscenium arch and has a high rigging loft. This Auditorium fills a long-felt need in the institution and this year has been the scene of many student activities.

On the second floor and running the entire length of the front of the building is the library, with a floor space of 3,000 square feet, equipped with steel book stacks having a capacity of 50,000 volumes. In addition to the stack and reading room, there are offices for the librarian and his assistants and rooms for clerical and cataloguing work.

The entire basement of the building is being equipped for an engineering laboratory for the testing of materials. It has a concrete floor over its entire area and will be equipped with standard high-pressure testing machines.

Parker Hall is named in honor of Luman Frank Parker, a lifelong friend of the



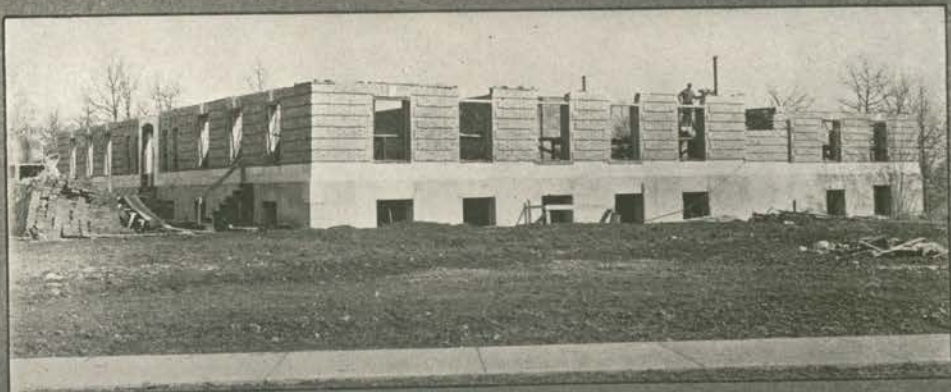
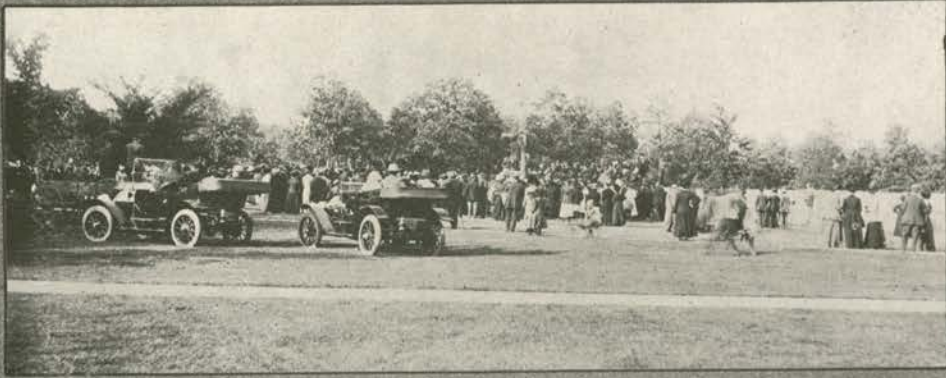


The Rollamo



School of Mines, who thru the years has been largely instrumental in making this institution what it is today, one of the great technical schools of the country. All who have connection with the school in any capacity regard this splendid structure but a fitting memorial of the life and work of the man for whom it was named. A bronze statue of Mr. Parker rests in a niche in the threshold between the two marble stairways leading to the library.







The Rollamo



The M. S. M. Gymnasium

THERE was great rejoicing among the students, Alumni and friends of the school when it became evident that the appropriation bill carrying an item of seventy thousand dollars for a fireproof gymnasium would be passed by the Forty-seventh General Assembly. The signing of the bill by Governor Major makes the gymnasium almost a reality.

The site for the building has not been selected, but according to present plans it will be located in the northwestern portion of the main campus adjacent to the athletic field.

The building will be strictly modern and will contain a swimming pool, a standard gymnasium with a running track, club rooms, a music room, offices for student organizations, and shower baths, lockers, etc.

One of the suggested schemes is to have the gymnasium facing the athletic field with commodious porches fronting on the field. This would make Jackling Field more attractive and would make the field the center of recreation and student activities.

A large club room will be provided on the main gymnasium floor. This room will face the athletic field and open upon the porch previously noted. A large fireplace will make this room a favorite among the students. Various members of the Alumni have offered to furnish attractive decorations for this room and it may not be too ambitious to expect to receive animal heads and furs from Alumni engaged in professional work in Central and South Africa, India, China, Mexico, Alaska, Central America, Peru, Bolivia and Chile. Undoubtedly each graduating class will endeavor to place in this room some memorial.

There will be a trophy room to contain pennants, footballs, basketballs, and baseballs, as mementos of athletic victories, pictures of athletic teams and famous athletes.

Hereafter each graduating class will undoubtedly leave a class picture to be hung upon the walls of this building.

As a gymnasium the building will be complete and modern. The main floor will be at least 50 by 100 feet without any obstructing posts. The swimming pool will be not less than 20 by 60 feet and will be finished in white tile. There will be rooms for handball, wrestling, and minor sports.

All in all the building will be thoroughly attractive and will fill a long-felt want.





The Rollamo



???? Jokes ???? ?

(These were handed in to us as jokes. Maybe they are.)

Mountjoy: May I be excused, Professor?

Prof. Scott: Is it actually necessary?

Mountjoy: Yes, sir. I want to go home and change the water on my goldfish.

JUST DEAN

The only trouble in being a mathematician is that it's so lonesome.

Integral calculus is the piling up of experience and it's a bitter one for some.

You make the strips as thin as the man who didn't know whether he had the back-ache or the stomach-ache.

Finley: What is a moment, Professor?

Prof. Dean: Wait a moment and I'll take a moment to tell what is a moment.

We will take this up by de-tail.

Too much algebra beclouds the intellect.

A little algebra now and then

Is relished by the wisest men.

Jokes are like some cheese, no good if not highly flavored.

As a cat has nine lives, there is more than one way of killing the cat.

If your integrater grates, oil her up.

If some of you don't get busy you will be just like the dog—have your tails cut off right behind the ears.

You don't never know nothin' nohow no time.

FORGET IT!

Don't get your chairs so close together. I've got to circulate.

Let me sharpen your pencil, I can't sharpen your wits.

Shut that door, somebody! Some of these Profs can make an awful racket.

Cheer up! The worst is yet to come.

So far (sofa) and no farther (father).



The Rollamo



THE SOUTH GATES



The Rollamo



Isabelle McRae: I don't know what is the matter with Mac. I haven't heard from him for the longest time. He must be mad.

Pauline: I guess not. He didn't say anything about it.

Isabelle: Well, anyway, I sent him some K. A. cuff buttons, Xmas.

Pauline: Why, you f-o-o-l. He's a Beta.

Isabelle: He is not. I guess I know what he is. He is a K. A.

Pauline: Well, which Mac do you mean?

Isabelle: Macomber.

Pauline: Oh-h-h-h! I meant McCleary.

If you see anything in this book you don't like, don't blame—etc.

Good Jokes.—Poicey, Goldy and Hoch der——

Joe Finigan belongs to the Mining Association. Now it happened that at one of the meetings that we had the good fortune to be addressed by one of our graduates who has spent many years in Mexico. Joe became very much interested in the talk and before long asked many questions. Now these questions needed some little explanation in the asking and after repeated questions from Finigan the slip of paper was handed him. "Who is giving this lecture, anyway?"

Mrs. Livesay: Mr. Kelly, will you have rolled oats this morning?

Kelly: No, thank you. I believe I'll have some oatmeal.

We have often wondered:

How Enoch likes the country.

Whether "Gov" loves Grace or Sybil.

Will Roxie miss Him.

Where are the golden days of yesterday.

Who will get married next.

What the moon sees.

Will Shotwell make the football team?

Where Eggy Miller got his shape.

Why Hoppock gave Klepel fifty cents.

Why is Mann.

Who is high with Pauline.

Who we will rush next year.



MANE



AT COLUMBIA



DUTCH



METALLURGY



SENIORS



SUNNING



"ON TO ST. JAMES"



ROX



FREED FROM TEST



MORE SENIORS



"HANS"



"MAC"



THE RABBIT



AT ST. JAMES



"THE RABBIT"



BACK TO NATURE



THE CHIEF



The Rollamo



ASTRONOMY.

Shorty Aves was worried. The unhappy expression on his face, seen in the dim lantern light, was unmistakable. Prof. McCandless, noticing his evident trouble, came to the rescue.

"What is the matter, Aves?"

"Well," he replied, squinting through the sky-pointed transit, "I can find Polaris all right, but where, for the love of Mike, is the North star?"

CLIPPING FROM THE STELLA RECORD

Prof. Martin Thornberry has charge of the exhibit of the Rolla School of Mines at the Sedalia State Fair. Prof. Mart is getting up for a Stella boy.

TO THE ROLLAMO

Wanted some Freshman to punctuate the following:

"Good-bye God I am going to Mo."

PROF. DEAN'S CLASS

Sin (cos-lx) equals what?

Keiser says Sin of companion of X.

FROM CHEM NOTE BOOK OF A FRESHMAN

A little phen thaline was then treated with a certain amt of acid, no reaction. Some base on being drawn off turned this a rozy red. (Very beautiful.)

Prof. Scott, illustrating the meaning of abstract and concrete:

"If you think of red, that is abstract. But if you think of a red object," pointing at Red's head, "that is concrete."

Red Garesche sitting in the front row.

We have often wondered:

Who we will take to the Commencement Ball.

Why Bowen don't turn farmer.

How Test did it.

What we will do this Summer.

Who we will do this Summer.

What Martin learns at dancing school.

How the Rollamo office got so dirty.

Did they really lose money St. Pat's Day.

Which will Kaiser break first—his head or the motor.

Who chews gum the more gracefully—Percy or Goldy.

Who won Diddle's pin.

Who discovered Southern Comfort.

Who Auggie has not called on.

Why Seward is not married.

Why Metz can't find new puns.

Why we don't have street cars in Rolla.

What McNutt knows.

Why everybody likes our Mary.

Whose lips were built for cocktails and kisses.



SUNDAY MORNING



TOPOG



THE FIRST REHEARSAL



PARKER HALL



FROSH



NORWOOD HALL



"PROF JACK"



"GOV"



The Rollamo



THE ROLLA GIRLS

By One Who Loved and Lost.

Here is to the girls you fussed, Sir,
When you were here in school,
And to the same girls I fuss, Sir,
Who make me act a fool.

The girls who tell of times gone by—
(Ye Gods! How well they keep!)
Who speak of good old fussing days
With barely time to sleep.

Who talk of "Bill" and "Jack" and "Ned"
In terms of great endearment,
Who sail right in and raise the dead
And keep them from interment.

Who, when you feel you've won a home
And gained much love and—kisses,
Tell you it's time for you to roam
And look for other Misses.

Of course we know they are good old scouts
And all that sort of thing—
Yet it's no wonder the old love bouts
Did not bring on the wedding ring.

I guess they were as fickle then,
In the old days in dear Rolla,
And always looking for new men
To beat our time all hollow.

Yet, tho we know they've loved a bunch,
We love them still. Can't help it!
And when we're gone, I have a hunch
That there will be about nine hundred and
ninety-nine more of us who will follow in the
footsteps of the nine thousand, nine hundred
and ninety-nine of us who have passed away
and will love the same old girls, who will
merely fix their hair a different way, buy
some brighter paint and look just as young
as ever.





The Rollamo



"So you think I smoke too much?" asked Castillon, just to keep up a conversation that seemed to be languishing.

"Not at all," answered Miss Ferris, not very skillfully concealing a yawn.

"You said you thot so," replied Tirso.

"Pardon me, I don't think you are smoking too much," she answered.

"But," inquired he, "didn't you say I would die if I didn't cut it down?"

"Yes," replied Miss Ferris, none too gently, "that's what I said."

Poor Tirso. It took him a long while to get it, and then he was quite angry.

HEARD ABOUT SCHOOL

"A burr punched screen is one with the holes dragged thru."

—"Bill" Hogaboom.

C. C. PATTEN, ON CHEMISTRY

Specific gravity is the power of the earth to pull on something.

A normal solution is one almost saturated.

Once upon a Time not Years ago, two Boys were Playing with some Other boys. These little Boys were nice Little Boys and Sons of the Director. (The Faculty Member with the High forehead pulled weeds in the Tennis Court.) Said the nice Little boy, the oldest one, "—!*!". "Where did You hear That?" said One of the Other boys. "Aw, Bob Dickerson said that. Fred Lane said, ***—*n, and Doc Test, he said "——!*!——\$***—!!*!" continued the nice Little boy, "and sore as the Devil, I got that from Dad."

We have often wondered:

Why Doc Young shaved his beard.

Why Murphy goes to St. James.

Is a boy in school worth two in the mine.

Why Prof. Cope doesn't get married.

Why the Rolla girls are so popular.

Why Garrett stays out at night.

Why Knickerbocker started going fussing.

Why Muench is fat.

What he gets for washing dishes.

Why Dean goes fishing.



With the Compliments of the Author, Geo. R. Dean

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THE POTENTIAL AND ELECTROSTATIC FORCE IN THE FIELD OF TWO METAL SPHERICAL ELECTRODES.

BY GEO. R. DEAN.

I. THE POTENTIAL AT ANY POINT.

TWO conducting spheres are charged to potentials V_1 and V_2 . The ratio of the distances of any point from the two inverse points of the spheres being denoted by c^2 and the angle between them by ξ , the potential at the point (η, ξ) is

$$V_1 \left[\frac{1}{2} (\cosh \eta - \cos \xi) \right] \sum_{n=0}^{\infty} \frac{\sinh(m + \frac{1}{2})(\beta + \eta)}{\sinh(m + \frac{1}{2})(\alpha + \beta)} P_n(\cos \xi) e^{-(m+1/2)\eta} + V_2 \left[\frac{1}{2} (\cosh \eta + \cos \xi) \right] \sum_{n=0}^{\infty} \frac{\sinh(m + \frac{1}{2})(\alpha - \eta)}{\sinh(m + \frac{1}{2})(\alpha + \beta)} P_n(\cos \xi) e^{-(m+1/2)\eta}, \quad (1)$$

where $P_n(\cos \xi)$ is a zonal harmonic, and $\eta = \alpha$ on the surface of the sphere whose potential is V_1 , and $\eta = -\beta$ on the surface of the sphere whose potential is V_2 .

Before giving the details of the derivation of (1) it will make the matter more interesting to the reader to give an outline of the process.

The function (1) is a solution of Laplace's equation, which in the case of symmetry with respect to an axis, as in the case of the spheres, is

$$\frac{\partial^2 V}{\partial r^2} + \frac{\partial^2 V}{\partial z^2} + \frac{1}{r} \frac{\partial V}{\partial r} + \frac{1}{z} \frac{\partial V}{\partial z} = 0, \quad (2)$$

r being measured along the axis, and z normal to it.

The first step is to transform (2) to new independent variables defined by the equations

$$\eta = \frac{1}{2} \log \left[\frac{r^2 + (c + r)^2}{r^2 + (c - r)^2} \right], \quad \xi = \tan^{-1} \frac{2cr}{r^2 + z^2 - c^2}, \quad (3)$$

taking the origin at the middle point of the line between the limiting or inverse points. The position of these points is determined in what follows.

The transformed equation is

$$\frac{\partial^2 V}{\partial \eta^2} + \frac{\partial^2 V}{\partial \xi^2} - \frac{\sinh \eta}{\cosh \eta - \cos \xi} \frac{\partial V}{\partial \eta} + \frac{\cosh \eta \cos \xi - 1}{\sin \xi (\cosh \eta - \cos \xi)} \frac{\partial V}{\partial \xi} = 0. \quad (4)$$

No. 6.]

POTENTIAL AND ELECTROSTATIC FORCE.

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Also

$$\left(\frac{\partial \eta}{\partial r} \right)^2 + \left(\frac{\partial \eta}{\partial z} \right)^2 = \left(\frac{\partial \xi}{\partial r} \right)^2 + \left(\frac{\partial \xi}{\partial z} \right)^2 = \frac{4c^2}{(r^2 + z^2 + c^2)^2 - 4r^2 z^2}. \quad (25)$$

First Transformation of Laplace's Equation.—The relations (24) and (25) make the transformation quite easy.

$$\frac{\partial V}{\partial r} = \frac{\partial V}{\partial \eta} \frac{\partial \eta}{\partial r} + \frac{\partial V}{\partial \xi} \frac{\partial \xi}{\partial r}, \quad (26)$$

$$\frac{\partial V}{\partial z} = \frac{\partial V}{\partial \eta} \frac{\partial \eta}{\partial z} + \frac{\partial V}{\partial \xi} \frac{\partial \xi}{\partial z}, \quad (27)$$

$$\frac{\partial^2 V}{\partial r^2} = \frac{\partial^2 V}{\partial \eta^2} \left(\frac{\partial \eta}{\partial r} \right)^2 + \frac{\partial^2 V}{\partial \eta \partial \xi} \frac{\partial \eta}{\partial r} \frac{\partial \xi}{\partial r} + \frac{\partial^2 V}{\partial \xi^2} \left(\frac{\partial \xi}{\partial r} \right)^2 + \frac{\partial V}{\partial \eta} \frac{\partial^2 \eta}{\partial r^2} + \frac{\partial V}{\partial \xi} \frac{\partial^2 \xi}{\partial r^2}, \quad (28)$$

$$\frac{\partial^2 V}{\partial z^2} = \frac{\partial^2 V}{\partial \eta^2} \left(\frac{\partial \eta}{\partial z} \right)^2 + \frac{\partial^2 V}{\partial \eta \partial \xi} \frac{\partial \eta}{\partial z} \frac{\partial \xi}{\partial z} + \frac{\partial^2 V}{\partial \xi^2} \left(\frac{\partial \xi}{\partial z} \right)^2 + \frac{\partial V}{\partial \eta} \frac{\partial^2 \eta}{\partial z^2} + \frac{\partial V}{\partial \xi} \frac{\partial^2 \xi}{\partial z^2}. \quad (29)$$

Adding (28) and (29) and using (24) and (25)

$$\frac{\partial^2 V}{\partial r^2} + \frac{\partial^2 V}{\partial z^2} = \frac{4c^2}{(r^2 + z^2 + c^2)^2 - 4c^2 r^2 z^2} \left\{ \frac{\partial^2 V}{\partial \eta^2} + \frac{\partial^2 V}{\partial \xi^2} \right\} \quad (30)$$

From (26) and (21) and (22)

$$\frac{1}{z} \frac{\partial V}{\partial z} = \frac{\partial V}{\partial \eta} \left(\frac{-4cr}{(r^2 + z^2 + c^2) - 4c^2 r^2} \right) + \frac{\partial V}{\partial \xi} \left(\frac{+2c(r^2 - z^2 - c^2)}{z[(r^2 + z^2 + c^2)^2 - 4c^2 r^2]} \right). \quad (31)$$

Adding (30) and (31) and removing factor $4c^2/(r^2 + z^2 + c^2)^2 - 4c^2 r^2 z^2$.

$$\frac{\partial^2 V}{\partial \eta^2} + \frac{\partial^2 V}{\partial \xi^2} - \frac{r}{c} \frac{\partial V}{\partial \eta} + \frac{r^2 - z^2 - c^2}{2cz} \frac{\partial V}{\partial \xi} = 0. \quad (32)$$

It remains to substitute the value of r/c and of $r^2 - z^2 - c^2/2cz$ in terms of η and ξ . The value of r and of z are given by (20).

$$\frac{r}{c} = \frac{\sinh \eta}{\cosh \eta - \cos \xi}, \quad \frac{r^2 - z^2 - c^2}{2cz} = \frac{\cosh \eta \cos \xi - 1}{\sin \xi (\cosh \eta - \cos \xi)}.$$

Then (32) becomes

$$\frac{\partial^2 V}{\partial \eta^2} + \frac{\partial^2 V}{\partial \xi^2} - \frac{\sinh \eta \sin \xi}{\sin \xi (\cosh \eta - \cos \xi)} \frac{\partial V}{\partial \eta} + \frac{\cosh \eta \cos \xi - 1}{\sin \xi (\cosh \eta - \cos \xi)} \frac{\partial V}{\partial \xi} = 0. \quad (33)$$



The Rollamo



KNOBLE ORDER OF KNIGHTS OF THE ESCORT

Motto: "Honey, he who pays the pence."

Object: "To succor fair damsels and pay for the cab."

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Pin: Hat, Frat and Safety.

Flowers: The modest violet and brassy sunflower.

Time of Meeting: Every night.

Place of Meeting: At the corner, house or where convenient.

Chapters everywhere.

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Downing

PAST MASTERS

Intentions not Serious

Durward Copeland, Active

Horace Mann, Occasional

Hans Beuhler, by Imputation

GRAND MASTERS

Serious Intentions

Enoch Needles, Rural

Brooks and Katz, Local

Murphy and Boucher, Foreign

MASTERS

Andy

Diddle

Harry

Auggie

Tirso

Wallace

SERVING DOUBLE TIME FOR ELIGIBILITY

Knickerbocker





The Rollamo



We suppose you all know that McNutt is married? Yes, he sure is. It was the first thing he did this year. Well, of course, he brought Mrs. Mac on a tour of inspection of the various laboratories and amongst others the Assay Lab was visited. After she watched the boys cupelling and doing their other stunts and had everything explained in great shape by Cope, she turned to him and innocently remarked: "Did Vachel take all this? I had no idea he knew so much."

We have often wondered:

Where Jim Tucker.

How Vic Hughes got his picture in the Globe.

Why they call him "Diddle."

Why girls leave home.

What is a "Marguerite."

What time McCleary gets up.

Who put out the fire.

Why Cas doesn't turn soldier.

If Harry has beaten Hack's time.

Who taught Eggy politeness.

What Cox is talking about.

Whom Alma loves.

Who buys Beeghley chewing.

Who gets the graft.

How Hollister gets away with it.

Why is work.

If the Seniors took Cope's advice.

Who will get the Chair of Theology.

Has the Younger Set grown up.

Why we don't walk out the cut.



The Rollamo



BREAKFAST



FIRST BELL



DINNER



WHEN YOU OUGHT TO LEAVE HER



TIME TO GO FUSSING



WHEN YOU DO LEAVE



SUPPER

We have often wondered:

If Charley will be able to manage his "Rollamo."

Why fussing isn't what it used to be.

How it feels to be rich.

If you will ever think of the Rolla girls.

Who will pay the bills.

Why they called her "Bertha."

Where we will get it next year.

Who is Happy Bottom.

Who is boss.

Why Woolrych goes to Lebanon.

What Smith wanted.

Why friendship rings are scarce.

Where Charlotte wore her Pi Kappa Alpha pin at the Kappa Sig house.



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sake of
posterity

and due
appreciation
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- Albertson, Maurice Merton, '11.....*Rolla, Mo.*
Assistant Geologist, Bureau of Geology and Mines.
- Alexander, Curtis, '84.....*Apt. 320, San Luis Potosi, Mex.*
- Alexander, Raphael Currier, '03.....
- Alexander, Thompson, '01.....*Portland, Ore.*
Albers Dock No. 2, Union Bridge & Construction Co.
- Allen, Ernest James, '11.....*Hazel Green, Wis.*
Cleveland Mining Co.
- Ambler, John Owen, '06.....*Box 188, Cananea, Sonora, Mex.*
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- Anderson, Hector George Sylvester, '08.....*Cobalt, Ontario, Canada.*
Mills Superintendent, The Buffalo Mines, Ltd.
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- Barrett, Edward Philip, '09.....*Wilburton, Okla.*
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- Bean, William Yantis, '78.....*510 Pine St., St. Louis, Mo.*
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AT WORK



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Engineer and Assayer.
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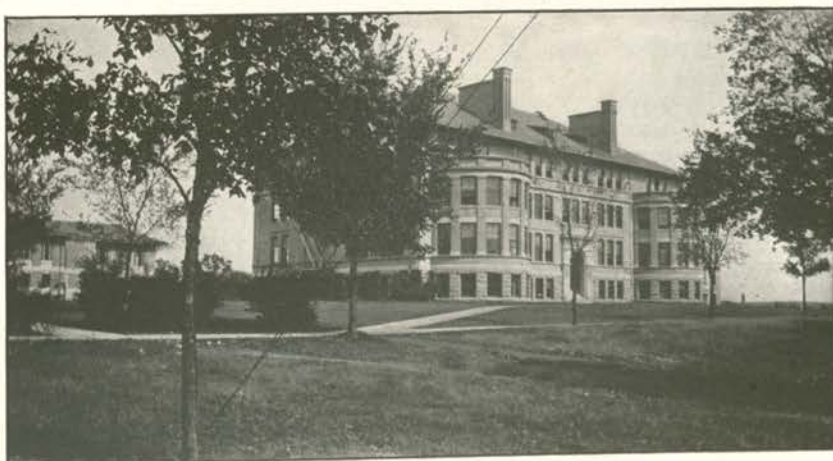


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- Cullings, Jay, '86.....Pueblo, *Colo.*
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- Davis, Floyd, '83.....5024 *Page Ave., St. Louis, Mo.*
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- Dean, George Walter, '97.....4426a *Gibson Ave., St. Louis, Mo.*
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- Delano, Lewis Alfred, '04.....Bonne *Terre, Mo.*
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- DeLay, Theodore Stuart, '94.....Creston, *Iowa.*
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- Detweiler, Alfred Nicks, '10.....103 *W. Laurel, Springfield, Ill.*
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- Detweiler, Milan Harrison, '11.....Box 194, *Sunnyside, Utah.*
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- Dobbins, Walter, '10.....Hurley, *N. Mex.*
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- Don, DeForrest, '09.....St. Francois, *Mo.*
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- Dosenbach, Benjamin Harrison, '10.....Butte, *Mont.*
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- Duncan, Gustavus A., '74.....Nelson, *Nev.*
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THE ARTIST



NORWOOD HALL



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- Dunn, Theodore Saunders, '10....509 17th St., N. Great Falls, Mont.
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- Dwyer, Edward P., '95.....111 E. 12th St., Joplin, Mo.
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Mill Foreman, Buffalo Mines Co., Ltd.
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- Eardley, Albert Edwin, '97.....Carrizo Springs, Tex.
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Chemist, Sligo Iron Works.
- Fach, Charles Albert, '00.....Security Bldg., St. Louis, Mo.
Bonds and Stocks.
- Farrar, Monroe, '11.....Mattoon, Ill.
General Engineer and Contractor.
- Fay, Albert Hill, '05.....Washington, D. C.
U. S. Bureau of Mines.
- Fellows, Aubrey P., '07.....Collinsville, Ill.
Assistant Superintendent, Sulphate Plant, St. Louis Smelting
and Refining Co.
- Fernandez, Abraham Leonardo, '00,
Calle de Hidalgo No. 45, Monterrey, N. L., Mex.
Superintendent, Nego. Minera, El Cigararro.
- Florreich, Phillip, '95.....
Deceased.
- Flynn, Frank James, '12.....St. Joseph, Mo.
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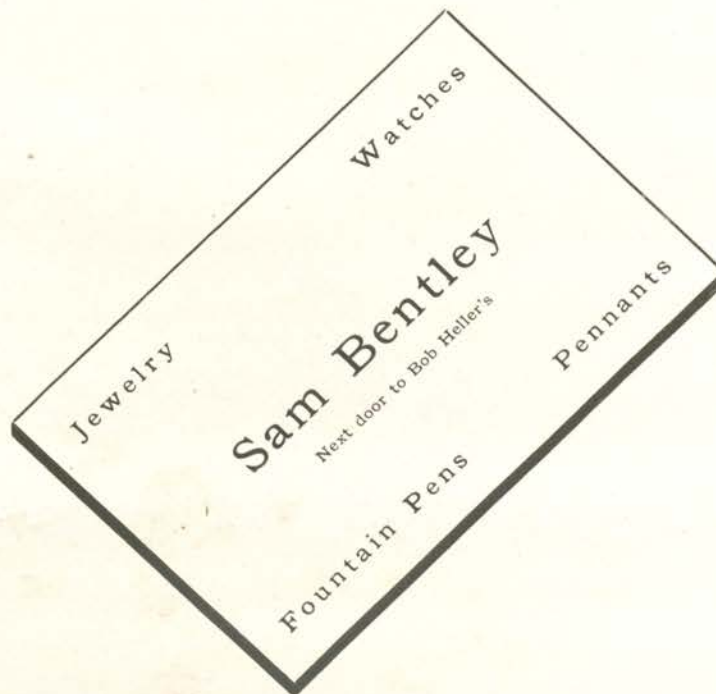


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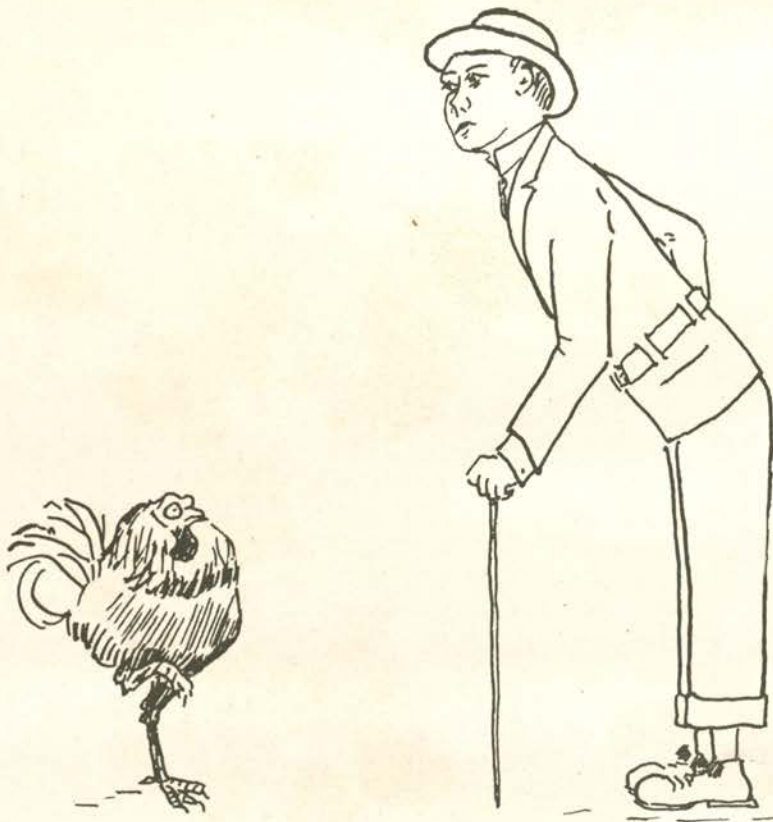
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